

2019 ANNUAL GROWTH REPORT



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"MARYLAND'S NEW CENTER OF OPPORTUNITY"

The 2019 Annual Growth Report

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INTRODUCTION

In accordance with State law, this report must provide information on development activity and planning programs to ensure that these activities are being completed in a manner consistent with the State's goals and visions. This report also addresses the implementation status of HarfordNEXT. The indicators required by the State are included in this report.

Starting in July 2010, Harford County was required to submit a report to the Maryland Department of Planning (MDP) on its Adequate Public Facilities (APF) provisions and any development restrictions within Priority Funding Areas (PFAs) that are the result of these provisions. Harford County provides this information annually to MDP.

The 2019 Annual Growth Report is an ongoing analysis of growth trends, facility capacity, and service performance. The report also contains information on updates to the County's Development Regulations and updates of all planning documents as required by the State. It addresses State requirements regarding planning consistency and opportunities for improving the planning process. This report is prepared by the Department of Planning and Zoning in coordination with the Department of Public Works and the Harford County Public Schools. This report provides information on the present development activity as well as past trends and future projections for Harford County and the region.

The information in this report will be used by public officials, citizens, and private developers for various purposes:

- To assess facility adequacy during the development review and approval process;
- To assess facility capacity in regard to zoning reclassification decisions;
- To support the evaluation of priority projects in the annual Capital Budget review; and
- To identify critical deficiencies which require prompt attention by the County.

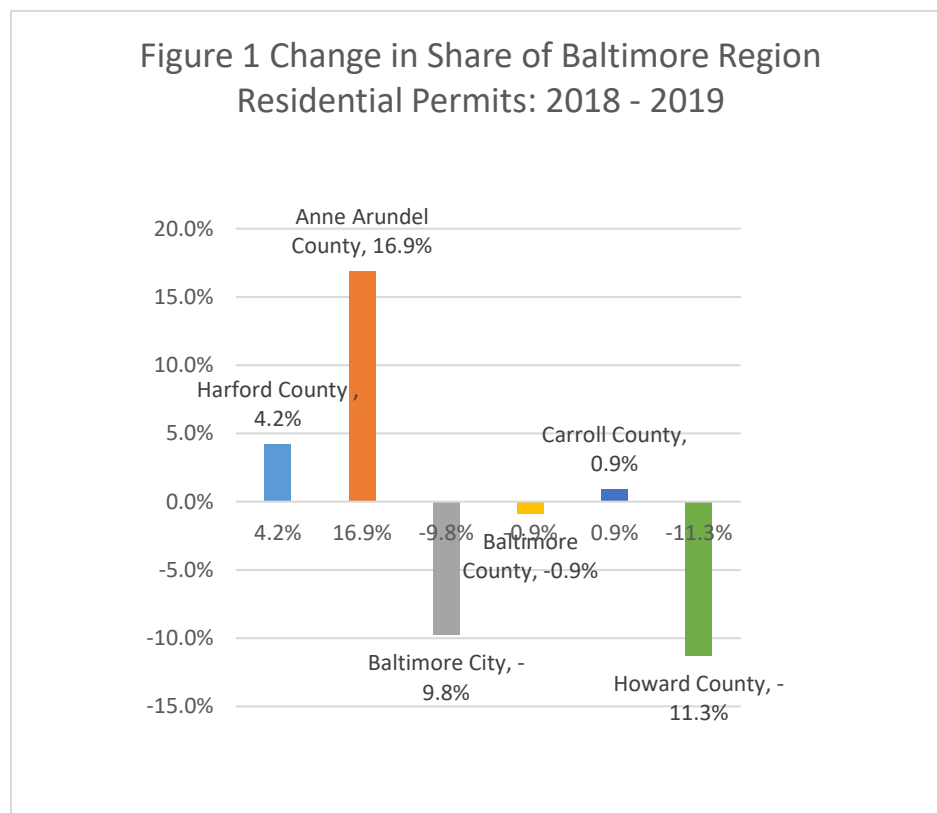
GROWTH TRENDS

Regional Data

In accordance with the Harford County Adequate Public Facilities provisions of the Harford County Code, the annual growth report must include data on growth trends for the previous one-year and five-year period, including comparisons with the other jurisdictions in the Baltimore region. Tables 1A – 5A (Appendix A) address the requirements specified in §267-126 A (2).

Baltimore Region Permit Activity

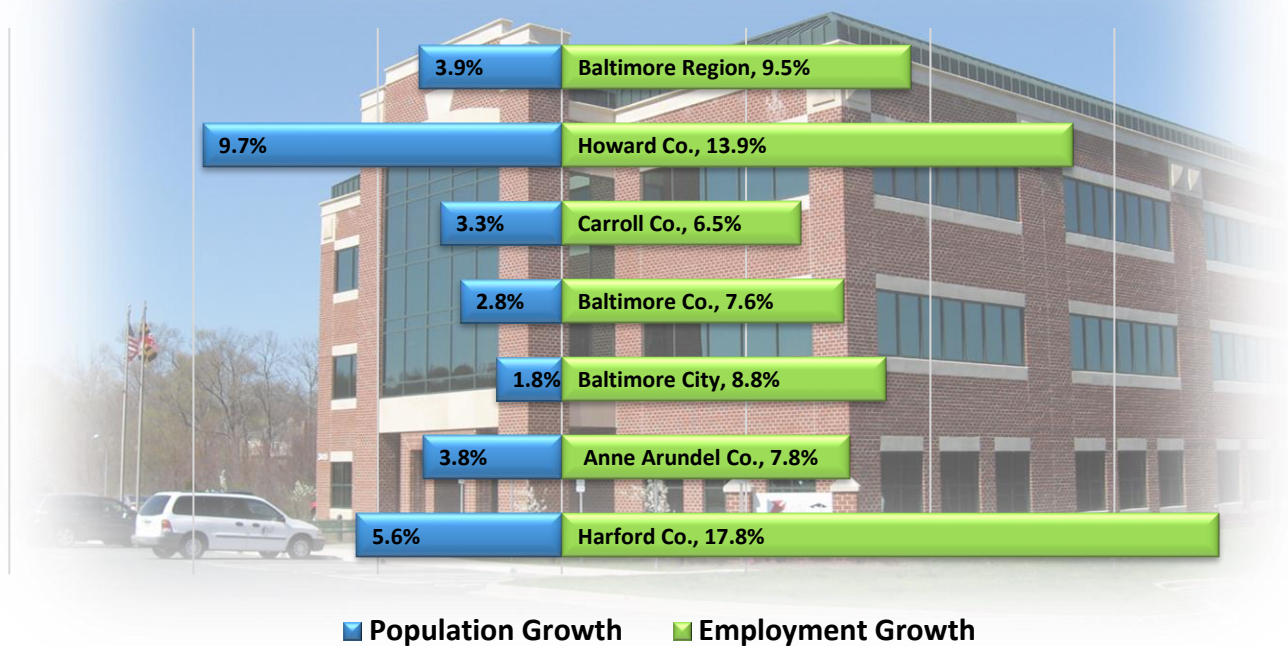
Harford County's share of the region's residential permits over the past five years represents 10% of the region's total permit activity. Harford County's share of the regional residential building permits activity increased 4.2% between 2018 and 2019 (Figure 1). See Table 1A in Appendix A for residential permit activity for the Baltimore Region for the 2015 to 2019 period.



Baltimore Region Population / Household Projections

Harford County's population is projected to grow by 14,317 residents over the next ten years from 256,149 in 2019 to 270,466 in 2029 (Figure 2). This represents a 5.3% increase in population growth and is slightly greater than the Baltimore region's projected growth rate of 3.7%. See Table 2A in the Appendix A for population and household projections for the Baltimore region for the 2019 to 2029 period.

Figure 2
Baltimore Region and Counties
Population & Employment Forecast: 2019 - 2029



Baltimore Region Employment Projections

Harford County's employment is projected to grow by over 22,022 jobs between 2019 and 2029, which represents a 15.1% increase in jobs over the next ten years. By contrast, the Baltimore region employment is projected to grow by 8.6% or 159,641 jobs between 2019 and 2029. According to the US Department of Commerce Bureau of Economic Analysis, Harford County employment grew by 1.4% per year versus 1.3% for the Baltimore region between 2014 and 2018.

Harford County is strategically located on I-95 in the heart of the East Coast and Mid-Atlantic markets. Harford's location, highly-skilled workforce, and progressive, business-friendly environment offers the ultimate setting to a wide range of prospective companies and industry sectors. See Table 3A in Appendix A for employment projections for the Baltimore region for the 2019 to 2029 period.

Harford County Development Activity

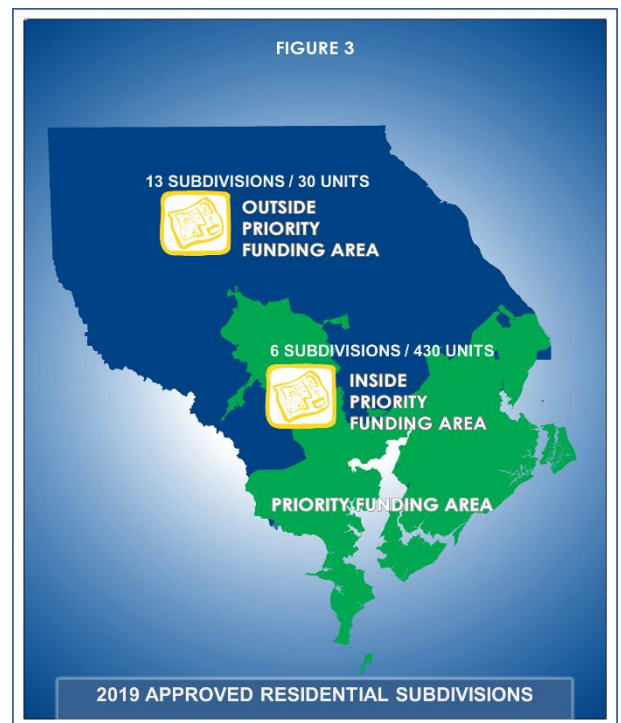
As required by State Land Use Article §1-207, Harford County is also required to prepare an annual report on development activity and planning programs. Reporting is required to be based on designated Priority Funding Areas (PFAs). PFA's coordinate state and local government efforts to support economic development and new growth. Funding for projects in municipalities, other existing communities, industrial areas, and planned growth areas designated by counties receive priority for state funding over other projects. For reporting purposes, it is important to note that the PFA approximates the Development Envelope, though is somewhat smaller because it excludes areas that are not currently included in the County's Water and Sewer Master Plan's ten-year service area.

New Subdivisions

In 2019, Harford County approved 19 residential subdivisions, totaling 470.7 acres. The residential subdivisions resulted in the creation of 151 single-family lots. Six of the subdivisions occurred within the County's designated PFA and yielded 430 units or 93% of the new lots/units approved (Figure 3). The number of units approved in 2019 represents an increase from 25 units in 2018.

The remaining 13 residential subdivisions, located outside of the PFA, created 30 lots (Figure 3). Of these, 85% were two lots or less (five single-lot subdivisions, five two-lot subdivisions).

There were seven non-residential plans approved, all of which were located within the PFA. A list and map of the approved subdivisions located in Appendix E.

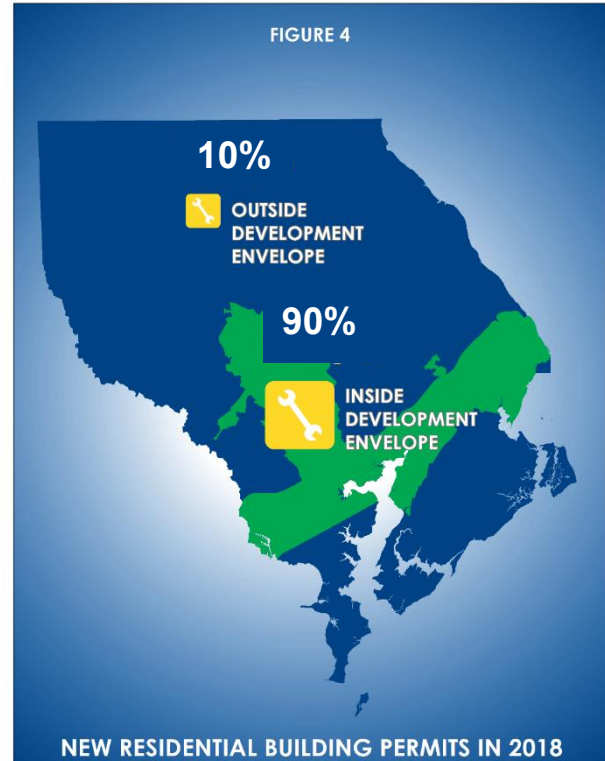


Permit Activity

A total of 826 building permits were issued by Harford County in 2019, which represents a 17% increase over the 2018 permit total of 706. This number includes new construction residential, non-residential, and accessory structure permits.

New Residential Building Permits Issued

A total of 826 new residential permits were issued by Harford County in 2019, which represents a 34% increase over the 2018 total of 514. The unit type breakdown includes 399 single family detached units, 184 townhouse units, and one mobile home as well as 57 apartment units. Additionally, the municipalities of Aberdeen, Bel Air, and Havre de Grace issued 185 new construction residential permits collectively. Approximately 90% of the 826 new residential permits (county and municipal) were located within the County's Development Envelope (Figure 4).



New Non-Residential Building Permits Issued

The County issued a total of 28 permits for new non-residential construction for a range of commercial and industrial uses and an additional 1,281 non-residential permits were issued for a variety of uses including residential accessory structures such as sheds, swimming pools, garages, and other miscellaneous uses.

An analysis of 2019 larger-scale (projects valued at \$50,000 and over - including municipal) new non-residential permit activity showed there were ten commercial permits totaling 221,274 square feet in 2019, representing an increase of five permits and 174,274 square feet over 2018. Similarly, for larger-scale (projects valued at \$50,000 and over) industrial permit activity there were four new industrial permit totaling 24,986 square feet in 2019, compared to 2018 when four new permits of 865,212 square feet was issued. This represents a decrease of 840,226 square feet from 2018.

Please reference Table 4B and Table 5B in Appendix A for a summary of non-residential permits for new as well as additions, alterations, and repairs valued at \$50,000 and over.

Development Capacity

The Department of Planning and Zoning routinely updates the inventory of residentially zoned land in the Development Envelope. This inventory provides a total residential land capacity and includes vacant undeveloped zoned land, preliminary and site plan approvals, vacant land capacity in the municipalities, and potential redevelopment/infill capacity. Based on this update, there is an estimated capacity of 13,684 units (Figure 5) in the Development Envelope, which includes 2,904 planned-approved unbuilt units in the Development Envelope as of December 31, 2019. There are an additional 403 planned units remaining outside of the Development Envelope as of December 31, 2019.



This section addresses state reporting requirements regarding code amendments and new or updated comprehensive plans and plan elements.

Zoning Code Amendments

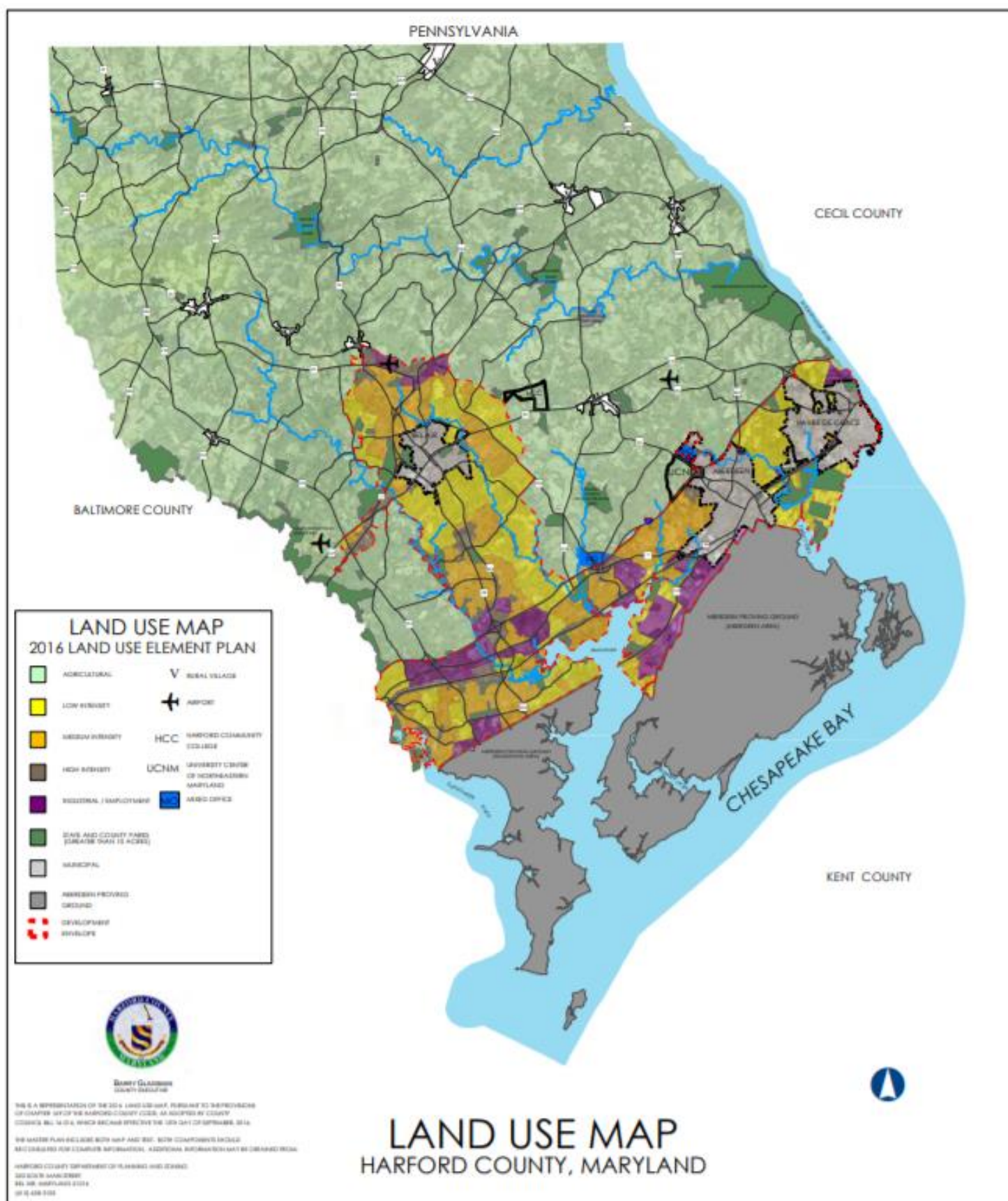
In 2019, the following bills were enacted that resulted in changes to the County's Zoning Code:

Effective Date	Bill	Description
3/13/19	19-04AA	Re-write of the Historic Landmark Section 267-14-thru 119 and also alters 267-4 Definitions.
8/12/19	19-15AA	Brewery (micro, production and pub) and Distillery (full and limited) added to 267-4 definitions; added to 267-50 Permitted Use Chart, Industrial and Service; Special Exception 267-88H(9); Special Development 267-73F(2). Farm Brewery clarification of tasting room sq. ft. excluding restrooms/storage 267-73B(3)(d) and updated name of State requirement article 267-73B(3)(e)
8/20/19	19-16AA	Club (non-profit, private and recreational) added to 267-4 definitions and in Special Exceptions 267-88A(2) rename country clubs, golf clubs, tennis and swim clubs to Club, Recreational. 267-88C(2) rename civic service clubs and fraternal organizations to Club, Nonprofit. Update permitted use chart Amusements and Institutional to reflect changes to Clubs. 267-4 Outdoor Dining Area definition amended along with 267-23C(1)(a)[8] to remove maximum area standard from Definition section and locate in Yards section. 267-22F panhandle lots amended to include GI uses. 267-33B(2) freestanding signs. Amend how maximum height is measured changing from base of sign to as measured from road grade with adjustment for elevation. 267-33B(6) Directional signs and 267-33I(6)(H) added to business districts regarding directional signs. 267-61D(3)(c)[2] MO update architectural materials permitted.

Comprehensive Plan and Element Plan Updates

HarfordNEXT, the County Master Plan (Figure 6), was adopted and became effective September 12, 2016 by the Harford County Council.

FIGURE 6



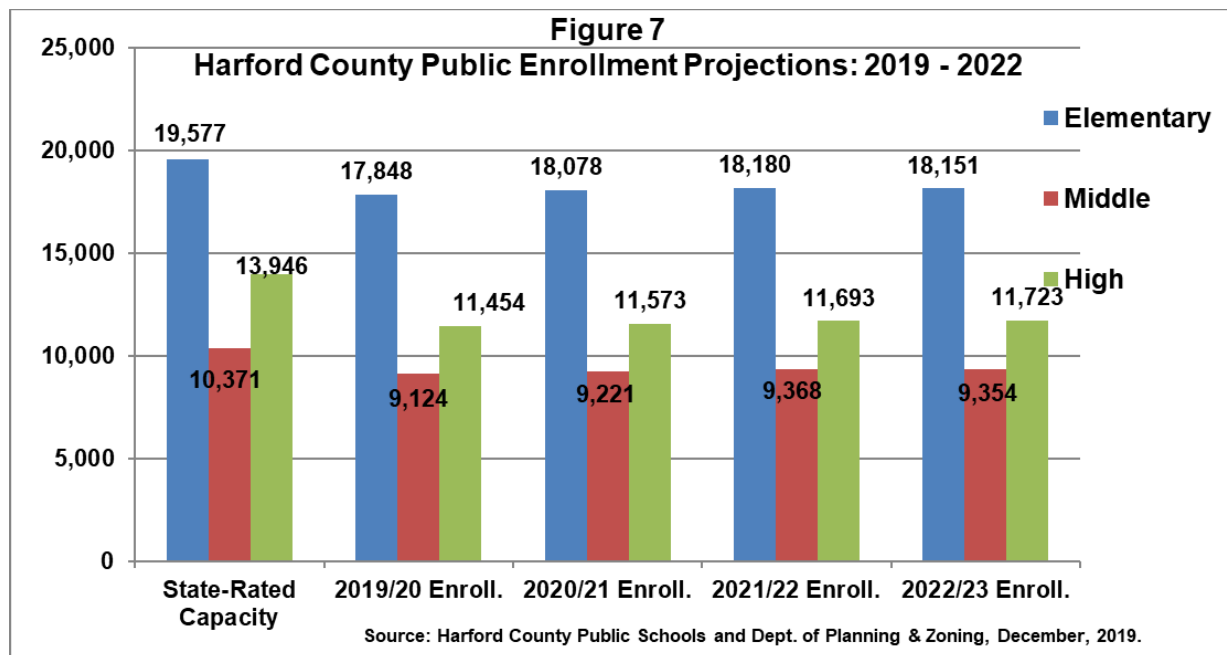
ADEQUATE PUBLIC FACILITIES

The County's Annual Growth Report must be updated annually to identify any public facilities that are functioning below the County's adopted minimum standards. This year's Annual Growth Report includes information and analysis regarding public schools, the water and sewerage system, road intersections and government facilities.

This report also addresses State reporting requirements for Adequate Public Facilities provisions; including reporting requirements for roads, transportation facilities and schools as they relate to development patterns. In the report, Harford County must identify any restrictions that occur within a PFA because of APF restrictions, and the report must address how the restrictions will be resolved.

Public Schools

To assess current and future adequacy of the public school facilities, the capacities of existing schools, school utilization and future populations are analyzed. The data in this report regarding the public school system is aggregated by the elementary/middle/high school districts, and include school enrollments, State-rated capacities for each school facility, utilization of each school facility, and three-year projected school enrollments (*Tables 6B, 10B, and 14B in Appendix B*). Modified school enrollment projections are included and take into account planned units remaining and projected units from vacant residential zoned land (*Tables 7B, 11B, and 14B in Appendix B*). In addition, development information such as building permits issued by dwelling type (*Tables 8B, 12B, and 16B in Appendix B*) and population and household estimates (*Tables 9B, 13B, and 17B in Appendix B*) are included in this report. Figure 7 shows enrollment projections by grade level.



Analysis

Each school facility has been analyzed in terms of past growth trends, current conditions, and future enrollment projections. The information is based on factual data and is aggregated by current school districts. Based on the Adequate Public Facilities provisions of the County Code, the level of service standard for Public Schools is 110 percent of rated capacity within three years for elementary and secondary schools.

Adequacy Standards

Under current law, preliminary plans for subdivisions of greater than five lots cannot be approved in school districts where the full-time enrollment currently exceeds, or is projected to exceed, 110 percent of the capacity within three years. Currently, 29 of 33 elementary schools meet adequacy standards and all 18 middle and high schools meet adequacy standards. Currently, major subdivisions in the Bel Air, Emmorton, Homestead/Wakefield, Magnolia, and Red Pump Elementary School attendance areas will not be approved, but may be reviewed and placed on a waiting list until capacity is available.

Water and Sewerage

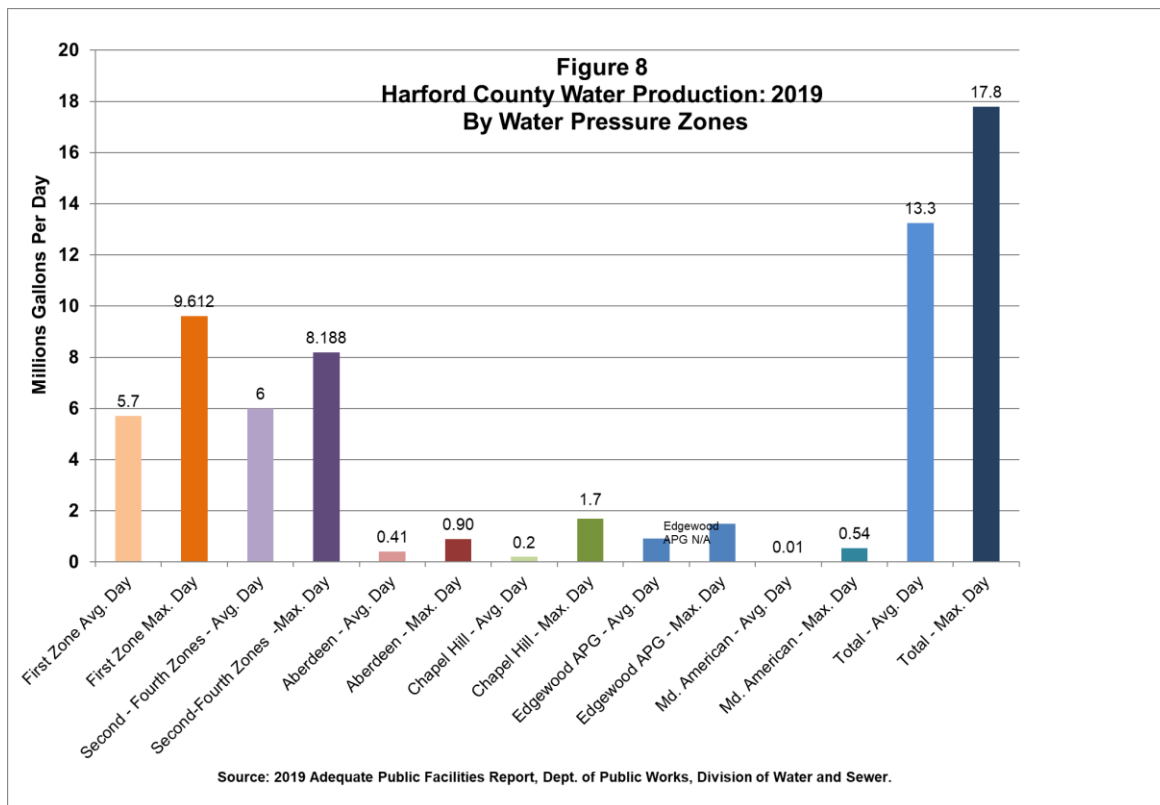
The data included in this section for the water and sewerage system are aggregated by the water and sewer service area, which generally coincides with the Development Envelope, as defined in the 2016 Harford County Master Plan, HarfordNEXT. Additional information is included in this report on water/sewage usage for residential and non-

residential uses, an inventory of existing water consumption/sewage flows, demand projections (including the basis for their computation), and a list of capital projects is contained in the County's Capital Improvements Program for expanding facilities, including project status (*Tables 18C - 21C in Appendix C*). This information is derived from the "2019 Water and Sewer Adequate Public Facilities Report," and is consistent with the County's Water Resources Element Plan.

Water

The County water system's average daily usage in 2019 was 12.7 MGD (Million Gallons Per Day), with a peak day demand of 18.5 MGD. With the completion of the Abingdon Water Treatment Plant (AWTP) in May 2012, the total countywide permitted maximum daily water treatment capacity is approximately 27.8 MGD. The County has a maximum day drought demand of 19.75 MGD. With the further expansion of the AWTP to 20 MGD the County's water service area is adequately planned. To keep pace with the projected growth, staged construction programs are established that distribute required capital costs for improvements and/or additions to the County's system over a period of years. Figure 8 illustrates water production by water pressure zones during 2019.

In July of 2018, Harford County, the Town of Bel Air, and The Maryland-American Water Company (MAWC) agreed to the Second Amendment of the Water Service Purchase Contract (between Harford County and MAWC). Due to a deficit of supply from Winters Run, the Maryland Department of the Environment and the Harford County Health Department could not approve building permits within MAWC's service area. Through this amendment, Harford County may provide up to 30,000 gallons per day (GPD) temporary capacity in addition to the 40,000 GPD permanent capacity purchased by MAWC. In January of 2019, the MAWC completed construction of the impoundment, met the conditions of the MDE Consent Agreement and no longer requires temporary capacity from the County.

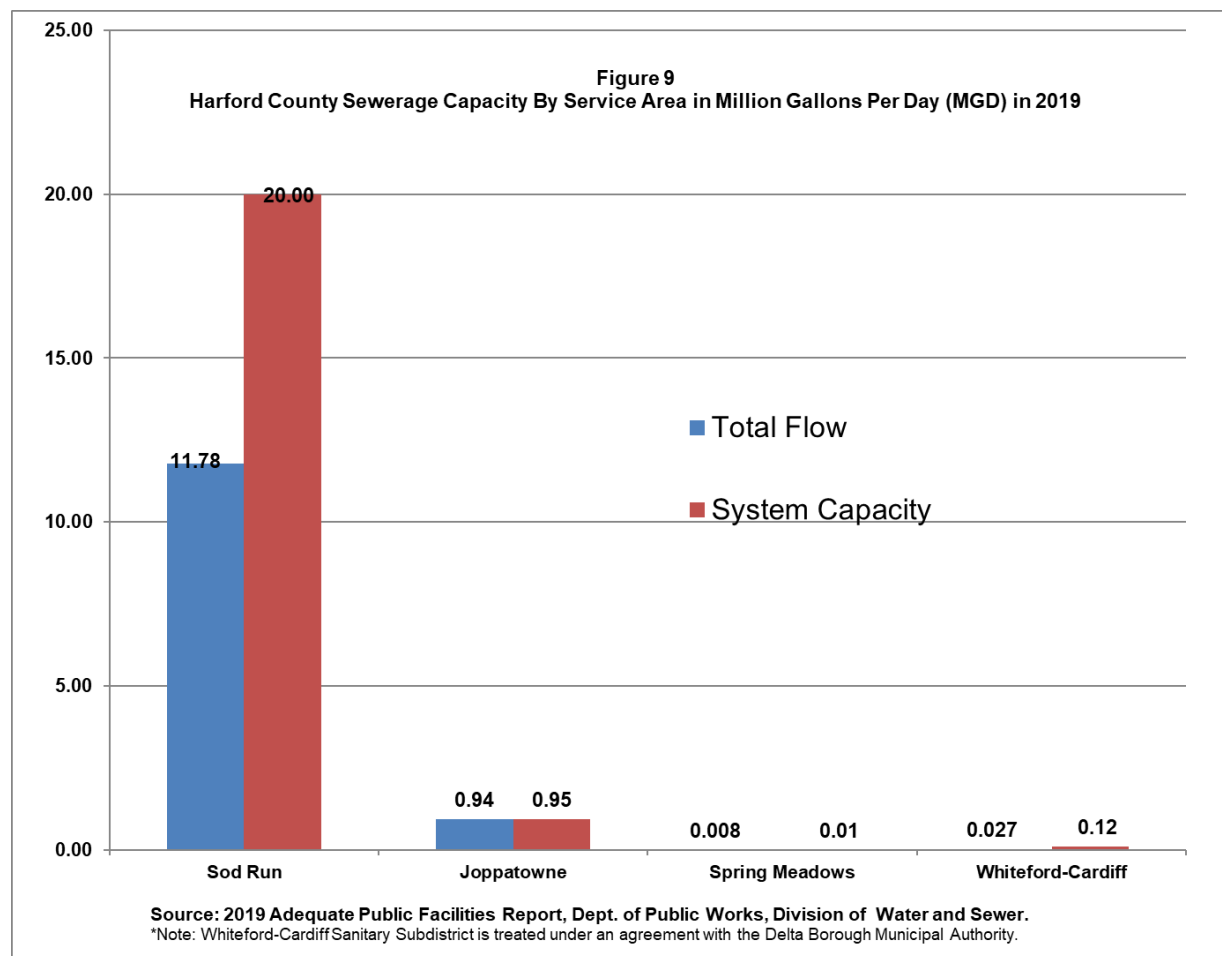


There are 16 community water systems that are not maintained or operated by Harford County, but are subject to the APF provision of the County Code. These private systems, which are monitored and evaluated by the Maryland Department of the Environment, are as follows:

- Maryland-American Water Co.
- Campus Hills Water Works Inc.
- Clear View Court Mobile Home Park
- Conowingo Power Plant
- Darlington
- Darlington Mobile Estates
- Fountain Green Mobile Home Park
- Greenridge Utilities Inc.
- Harford Community College
- Hart Heritage
- Lakeside Vista
- Queens Castle Mobile Home Park
- R & R Estates Mobile Home Park
- Susquehanna State Park
- Swan Harbor Mobile Home Park
- Williams Mobile Home Park

Sewerage

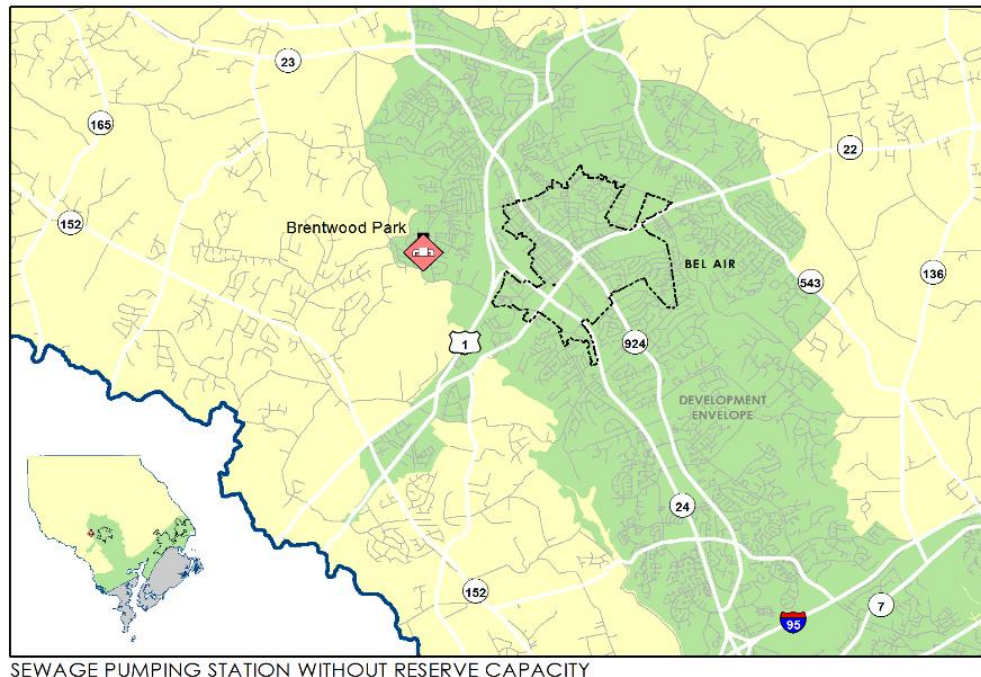
The average daily influent flow to the Sod Run WWTP in 2019 was approximately 11.78 MGD, exclusive of recycle flows and septage. The average daily influent flow to the Joppatowne WWTP in 2019 was approximately 0.94 MGD. The average daily influent flows for Spring Meadows and Whiteford-Cardiff in 2019 respectively were 0.008 MGD and 0.027 MGD's (*Figure 9*).



Since 1972, the County has prohibited any additional privately owned community or multi-use treatment plants with a peak capacity larger than 10,000 gallons per day (GPD) outside the Development Envelope. This encourages growth to remain within the growth corridor, maintains financial stability, and protects the environment.

The Division of Water and Sewer has identified the Brentwood Park Sewage Pumping Station (S.P.S.) (*Figure 10*) as being over capacity. Replacement of the station is included in the capital improvement program and the project is currently at 95% design stage and is expected to be bid for construction in late 2019.

FIGURE 10



In March 2019, the final report for the Fallston Sewer Capacity Study was completed. The study examined both the existing and build out conditions for the Fallston service area and identified the sewer improvements required. The improvements are included in the capital improvement program budget for the portion to be funded by the County and a Fallston Sewer Policy will be established for the portion of the improvements to be funded by future development. The study also performed preliminary downstream analysis of the Plumtree drainage basin which will require further study to identify the future required capital improvements.

In August 2018, the Hickory Collector Policy was approved which identified the future sewer improvements necessary for buildout of the Hickory drainage area and it established a funding mechanism by a surcharge for future connections. The capital improvements are planned to be implemented as necessary depending on how and when development progresses.

Road System

The intent of the APF Roads provisions of the County Code are to create a mechanism that requires proposed development to make appropriate and reasonable road improvements, based on the proposed development's impact to the road system.

The information for the APF Road System contained in this section includes the following: signalized and unsignalized intersection capacity analysis results (*Tables 22D and 23D*),

average daily count locations (*Table 24D*), a list of approved County capital projects funded for construction in Fiscal Year 2019 (*Table 25D*), and a list of State Consolidated Transportation Program (CTP) projects funded for construction in Fiscal Year 2019 (*Table 26D*). This information will help identify existing deficiencies in the road system and guide both County and State capital project funding to the most critical road projects (*Tables 22D – 26D in Appendix D*).

Developments which generate 1,500 or more trips per day may be required to expand the study area. The determination of existing and projected Level-Of-Service (LOS) is calculated in the Traffic Impact Analysis (TIA), which is performed by the developer and reviewed by the Departments of Planning and Zoning, Public Works and the State Highway Administration. LOS is a qualitative measure describing operational conditions within a traffic stream, based on service measures such as speed and travel time, freedom to maneuver, traffic interruptions, comfort, and convenience.

There are six established LOS – A through F – that measure the operational efficiency of a transportation facility. The following is a general definition of each level of service and Delay in Seconds:

LOS A (≤ 10) – free flow of traffic with no restriction of significant delay

LOS B ($> 10 \text{ \& } \leq 20$) – stable flow of traffic with very little restriction or delay

LOS C ($\geq 20 \text{ \& } \leq 35$) – stable flow of traffic with low to moderate restriction or delay.

LOS D ($> 35 \text{ \& } \leq 55$) – approaching unstable flow of traffic with moderate to heavy restriction / delay.

LOS E ($> 55 \text{ \& } \leq 80$) – unstable flow of traffic with significant restriction and delay.

LOS F (> 80) – forced flow or cases of “grid lock”. The flow rate drops significantly.

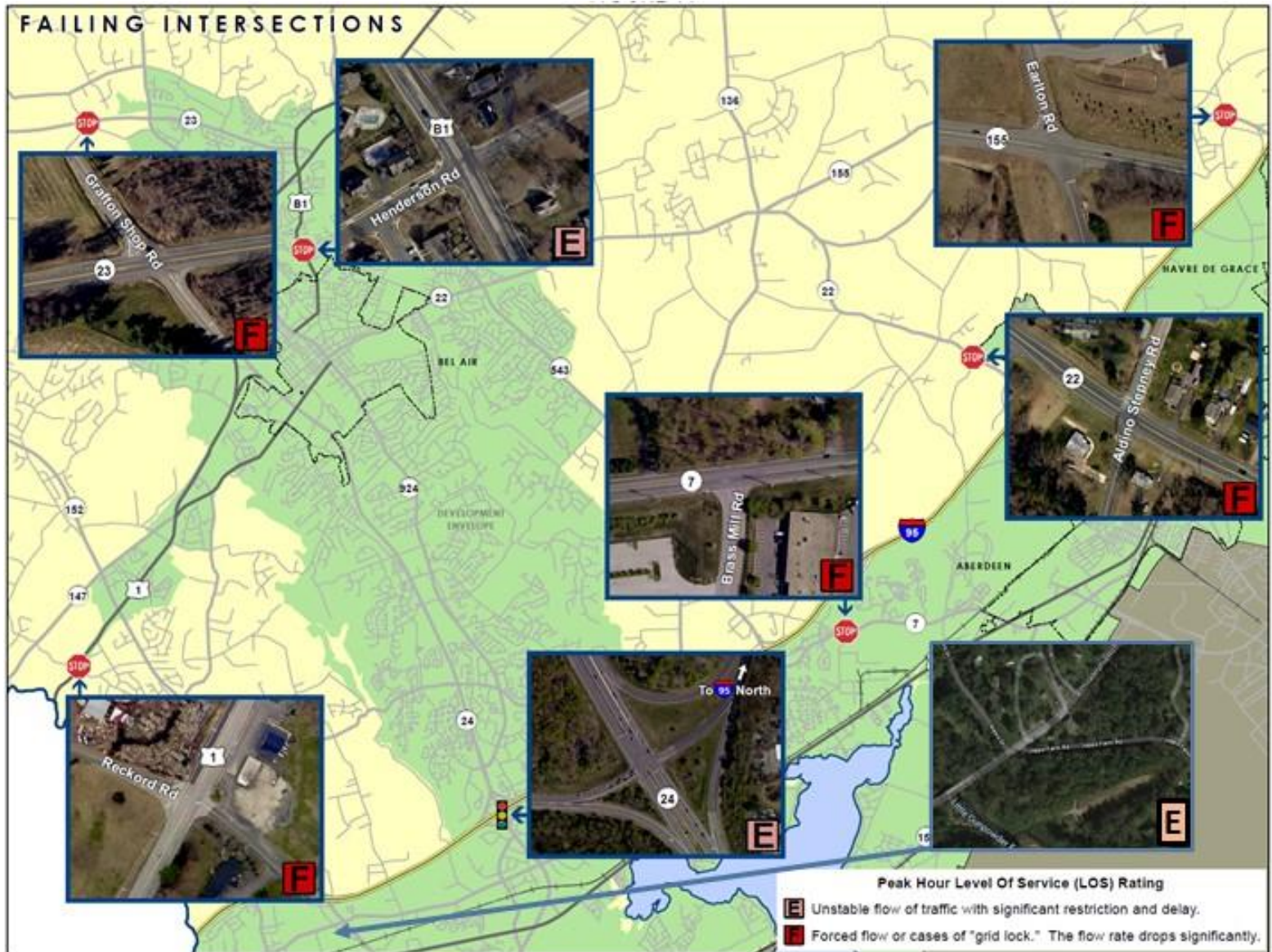
The standard for intersections within the Development Envelope is a LOS D. If the existing LOS is E or F at an intersection within the Development Envelope, then the developer must mitigate the impact of the development's new trips. The standard for intersections outside the Development Envelope is a LOS C. If the existing LOS is a D or lower, then the developer must mitigate the impact of the development's new trips.

In addition to the review of individual TIAs, the Departments of Planning and Zoning and Public Works have studied a number of major roads and intersections to identify existing conditions. This list represents a cross section of key intersections located inside, outside, and on the fringes of the Development Envelope that have been identified as failing or on the verge of failing based on the adopted LOS standards.

There is one signalized intersection and seven un-signalized intersections with one or more movements operating at a LOS E (LOS D outside the Development Envelope) or lower during peak hours. The evaluation of the LOS is determined by performance of the intersection during one-hour peak traffic periods in the a.m. and/or p.m. Figure 11 identifies intersections that contain one or more movements that **operate at an unacceptable LOS**. Developments that impact these intersections will be required to mitigate their impacts to the intersections.

FIGURE 11

FAILING INTERSECTIONS MAP



services to population and review approved capital projects to complete the requirement.

Fire/EMS Services

The Harford County Fire and EMS Services Master Plan that was completed in 2009 analyzed the need for Fire and EMS services based upon the county population. The plan identified the need for four additional Fire Station Facilities. One of these facilities, the Patterson Mill Road Station, has been completed and turned over to Bel Air Volunteer Fire Company (VFC). There is still the need for three additional Fire/Emergency Medical

Service facilities which are listed below:

- Riverside area on MD Route 543 just north of US Route 40
- On MD 543 (Fountain Green Road between Hickory and Fountain Green)
- Churchville near the intersection of MD Routes 22 and 136

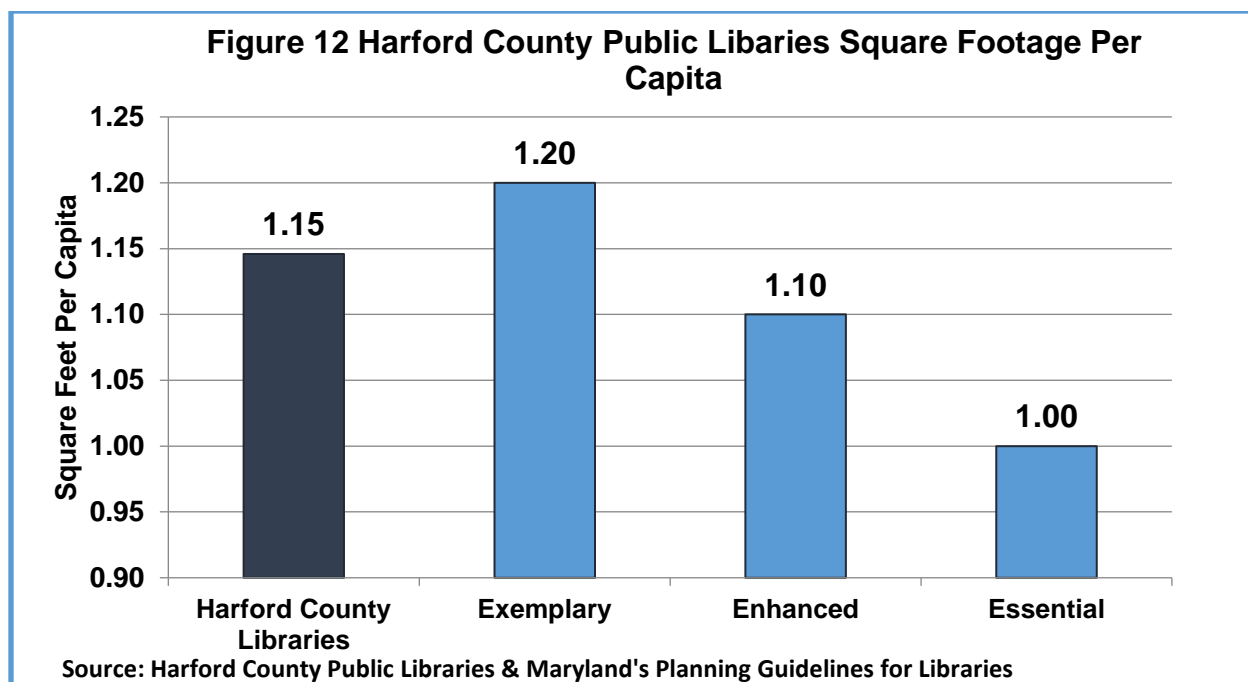
The approved FY 2020 Capital Budget and CIP includes funding for an EMS station and renovation of two existing VFD stations in Aberdeen and Whiteford. Additionally, the program funds communications, safety equipment, and multi-agency mobile command as well as other repairs to existing stations.

Library Services

The Maryland Department of Budget and Management require that libraries refer to “Maryland’s Planning Guidelines for Libraries” in order to determine if the level of service is consistent with the population and justify the need for expansion. The planning guidelines rate the area of library space per capita in a scale with three ranges:

- Essential = 1.0 square feet per capita (nationally accepted minimum facility size)
- Enhanced = 1.1 square feet per capita
- Exemplary = 1.2 square feet per capita

The total gross square footage of all Harford County Public Library branches totals 229,917. Based on a 2019 population figure of 255,441 the square footage per capita figure is 1.15, which exceeds the enhanced standard of 1.1 square feet per capita (*Figure 12*). The approved FY 2020 Capital Budget and CIP includes funding for technology. Additionally, expansion projects for Darlington and Havre de Grace remain open with prior appropriations.



Law Enforcement

There is no national standard for how many police officers' communities should have per capita. In the absence of a standard Harford County sworn officers per capita are compared using state and federal reports. The most recent reports are for 2018. The 2018 Maryland Uniform Crime Report shows Harford County had 459 sworn officers an increase of ten from the previous year. This represents a rate of 1.8 sworn officers per 1,000 residents. The County total of sworn officers breaks down to 292 in the Harford County Sheriff's Office, 66 in the Maryland State Police, as well as 37 in Aberdeen, 30 in Bel Air, and 34 in Havre de Grace. Federal Bureau of Investigation 2018 Uniform Crime Report indicates that the nationwide rate of sworn officers was 2.4 per 1,000 residents. This rate includes large metropolitan areas which have higher per capita rates. Figure 13 shows the Harford County rate of sworn officers in context with national averages for communities of similar population sizes.

The approved FY 2020 Operating budget Six Year Capital Improvement includes technology upgrades to improve force efficiency. 5.6 million for 911 communications and 1.25 million for public safety communications in school buildings build upon ongoing funding for county-wide radio replacement and uninterruptable power supply at nine emergency communication tower locations.

PLANNING CONSISTENCY REVIEW

Harford County must submit an annual report that addresses specific smart growth measures and indicators that support the statewide land use goal of targeting development within designated Priority Funding Areas and minimizing development outside of these areas. Changes in development patterns occurring in 2019 that impact land use, transportation, community facilities patterns, zoning map amendments, and subdivision plats must be reported. Local jurisdictions, as part of their annual reporting, must determine if all changes in development patterns in 2019 reported are consistent with the following criteria:

- All changes must be consistent with each other;
- The recommendations of the last annual report;
- The adopted plans of the local jurisdictions;
- The adopted plans of all adjoining local jurisdictions; and
- The adopted plans of State and local jurisdictions that have responsibility for financing or constructing public improvements necessary to implement the local jurisdiction's plan.

Development Patterns / Consistency of Plans

All the development noted in this report has been determined to be consistent with the surrounding land uses. A review of consistency is part of the plan approval process. As recommended in previous reports, the County continues to direct the majority of new residential development and redevelopment (93% in 2019) to the Development Envelope. During 2019, all subdivisions approved were consistent with the intent and policies of the 2016 Master Plan, the Water and Sewer Master Plan, and Adequate Public Facilities regulations. All roadway improvements were consistent with the State Consolidated Transportation Plan, and the Transportation Improvement Plan. Changes in development patterns, ordinances, and regulations were found to be consistent with the adopted plans of Harford County, as well as those of the state and all adjoining local jurisdictions. These changes furthered the Twelve Visions established in § 1-201 of the Land Use Article of the Annotated Code of Maryland.

Municipal Plan Coordination

Harford County coordinates with the Town of Bel Air and the cities of Aberdeen and Havre de Grace on the creation of their growth plans. State law requires municipal jurisdictions to develop a Municipal Growth Element (MGE) as part of their Comprehensive Plan. The MGE must identify future municipal growth areas outside of the existing corporate limits and be submitted to the County for review and comment. Proposed annexations must be consistent with those outlined in the Municipal Growth Element Plans and permitted development on the annexed lands shall be in accordance with the County's zoning classification that is in place at the time of the annexation.

The Aberdeen Council approved Resolution 19-R-02 in August 2019. The agreement concerns the Adams property and Seibert Farm, properties forming an area approximately 80 acres on Gilbert Road west of Aberdeen. The change in zoning from the county classification of Agricultural to the city zoning designation of the Integrated Business District was not anticipated in the county land-use plan. The area may be developed with up to 400 residential units. The 2016 Harford County Master Plan HarfordNEXT does not include the area of the proposed annexation as a growth area. The properties are not designated for sewer or water service.

Implementation

Harford County uses many tools to achieve the Visions, including Adequate Public Facilities (APF) legislation to manage growth by tying development to the capacity of existing government services such as water and sewer, roads, and schools. The County has developed implementation strategies, policies, programs, and funding for growth and development, resource conservation, infrastructure, and transportation are integrated across the local, regional, State, and interstate levels to achieve these visions.

The MD 22 Multimodal Corridor Study was completed in 2015 and the following improvements have been completed:

- New sidewalk installed along MD 22 from Shamrock Road to Hickory Avenue
- New Bus Shelter installed at the Courthouse
- MD 24 @ Marketplace Drive intersection improvement

Harford County continues to partner with the Health Department and Healthy Harford on implementation of health and safety programs.

The Department of Planning and Zoning tracks approved subdivisions located in the Priority Preservation Area Designation (Tier IV) under the Maryland Sustainable Growth and Preservation Act of 2012 (SB 236) that were approved prior to the enactment of the regulations and therefore grandfathered. In 2018, the Department tracked three grandfathered preliminary plans comprised of 71 lots. These grandfathered plans shall remain valid through the tenure of their approval.

Agricultural Preservation

Preservation efforts were continued through a variety of state and local programs. While participation in agricultural preservation programs is available to all property owners with agriculturally zoned land, the County's primary focus is protecting the Priority Preservation Area (PPA) (*Figure 14*). HarfordNEXT expanded the PPA boundary to include all lands north of the 2009 boundary and the Harford County portion of the Manor Rural Legacy Area. During 2019, 3,003 acres were preserved countywide, bringing the total protected land in the County to 54,761 acres. Of the acreage protected in 2019, approximately 1,489 acres were located in the County's PPA, bringing the total amount of protected land in the PPA to just over 48,369 acres.

FIGURE 14

Agricultural Preservation



PROCESS IMPROVEMENTS

As part of the annual report, local jurisdictions must identify any changes that will improve the planning and development review process, in addition to zoning ordinances or regulations that have been adopted during the reporting period that specifically address the planning visions of the Land Use Article.

In 2019, Harford County continued implementation of the Harford County Phase II Watershed Implementation Plan (WIP) for the Chesapeake Bay Total Maximum Daily Load (TMDL). This Plan was completed in 2012 by County, Municipal, State, and Federal staff with expertise in the various nutrient source sectors; agriculture, septic systems, urban stormwater, and wastewater treatment plants, to meet the nutrient reduction goals that were assigned to Harford County for the Chesapeake Bay TMDL. Strategies to meet these goals by 2025 were presented in the Plan, with two-year milestones identified to track progress. This past year, the County has been coordinating with the State of Maryland in the development of the Phase III WIP. Harford County staff will continue to work with the State to document implementation of Chesapeake Bay 2025 water quality restoration targets. A final Draft of the Phase III WIP is currently scheduled to be released in August of 2019.

The County does not anticipate making any changes to the development review process in the immediate future, and will continue to direct development to the designated growth areas and encourage redevelopment. In order to provide citizens with more information and better access to development review activities, the Department has implemented an interactive web based portal that includes several applications. The first, "Track-It", provides up to date information on development activities within the County. A second application "Open GIS" allows citizens access to a range of geographic data layers. WebGIS, is a user-friendly mapping application that provides access to GIS data layers and the ability to print maps easily. The County implemented the infrastructure for online permitting for various permits in 2019 which aided in continuation of operations during the Covid 19 pandemic.

ORDINANCES AND/OR REGULATIONS THAT IMPLEMENT THE STATE PLANNING VISIONS

Harford County's Master Plan, HarfordNEXT, was adopted in June 2016 and is consistent with the 12 State Planning Visions. The various element plans, including the Land Use Element Plan, Natural Resources and Water Resources Element Plan, Historic Preservation Element Plan, and Transportation Element Plan have been incorporated into the 2016 Master Plan. The Land Preservation, Parks, and Recreation Element Plan is also consistent with the planning visions contained in the Land Use Article of the Maryland Code. The plans also include strategies that address these visions. The County's Chesapeake Bay Critical Area Program and its Bicycle and Pedestrian Master Plan are also consistent with the visions.

METHODOLOGY

Population Projection Methodology

Yearly estimates of population and households in Harford County for the Annual Growth Report are determined from the 2010 Census. This data is adjusted to reflect a number of variables including building permits, average household size, and household vacancy rates. The five and ten year projections are based on these estimates, with a growth factor applied to determine the rate and quantity of growth in the County. This growth factor is based on the number of building permits anticipated to be issued each year. It is important to note that projections are based on past trends and land availability. A component of the residential land inventory is the number of net planned units remaining. The total planned units remaining is calculated by subtracting the total new residential building permits issued from the total preliminary plan approved units. Subdivision plans with six or more units remaining and approved municipality plans are included.

The 2010 Census information at the census block level is utilized for specific analysis of each facility regarding area maps and demographic information. Building permits are identified by facility areas and by subdivision name and/or address for each year. This provides the needed information on growth trends by facility service area. The population projections for the five other jurisdictions in the Baltimore Region are based on an interpolation of the Baltimore Metropolitan Council's Round 9 population forecast.

School Enrollment Projection Methodology

The methodology for projecting students utilizes historical data for live births and the number of children enrolled in public schools. Using these data, a series of ratios that reflect grade cohort survival are developed. These ratios include consideration of a number of factors:

- Births in a given year which affect subsequent kindergarten and first grade enrollments.
- Net migration of school age children.
- Net transfer of children between public and private schools.
- Non-promotion of children to the next grade level.
- Dropouts in the later years of secondary school.
- Shifts between regular grade and upgraded groups other than special education.

This technique of establishing a ratio is used for each successive grade. For example, a ratio is developed between the number of children actually in first grade in a given year and the number in second grade the following year. The ratio, therefore, represents the number of first graders who advance to second grade. If significant variations exist, such as a rapid increase in home building, then factors such as pupil yields for subdivision activity and development trends must be measured.

Development monitoring is a key activity to ensure accurate projections since housing expansion periods have a direct impact on school enrollments. A primary means of calculating projected student enrollment due to a housing expansion period is by using pupil yield factors for new developments.

Pupil yield is a term which describes the number of pupils generated per dwelling. The pupil yield factor is used to assist in identifying the impact of residential development on the Harford County Public Schools (HCPS) system. In 2019, pupil yield factors were calculated using all existing development in the county by each school attending area geography throughout Harford County, to include single family, townhouse, apartments, condominium, and mobile home dwelling units. The former method only looked at selected subdivisions. The data were tabulated by unit type, and the specific pupil yields were calculated for each subdivision in the elementary, middle, and high schools. Table 1 below provides a summary of the pupil yield factors by grade level.

Table 1 - Pupil Yield Factors

Unit Type	Grade Level		
	K – 5	6 - 8	9 - 12
Single-Family	0.17	0.09	0.12
Townhome	0.22	0.10	0.13
Apartments	0.15	0.06	0.06
Condominiums	0.07	0.04	0.04
Mobile Home	0.14	0.09	0.07

Source: Harford County Department of Planning and Zoning, 2018 Harford County Pupil Yield Study

The following example is included to illustrate how pupil yield factors are used to estimate new students generated by proposed residential development. In this example, it is estimated that 55 new students would be generated by a proposed 100 unit Single-Family detached (SFD) subdivision.

Table 2 - Estimating New Students Using Pupil Yield Factors (Proposed 100 SFD Subdivision)

Grade Level	Yield Factor	X	# of Dwelling Units (Single-family)	=	New Students
K- 5	0.17	X	100	=	23
6 - 8	0.09	X	100	=	9
9 - 12	0.12	X	100	=	12
TOTAL	0.44	X	100	=	44

Modified School Enrollment Methodology

Utilizing our regional cooperative Round 9 forecast, a projection of housing units was determined for each school district. The number and type of units were based on the existing zoning. After the number and type of units were determined and projected by year, a pupil yield factor was applied to determine the total number of new pupils by school district.

The methodology for determining a growth factor included a multi-step process. The process included utilization of the existing grade cohort succession methodology and the pupil yield factor. A factor was applied to the existing grade cohort succession ratio per school if the pupil yield factor identified an increase in the average number of students. In order to maintain a consistent application, all calculations were based on the Harford County Public School system's definition of "unadjusted" enrollment projections. No assumptions were made in terms of school capacities or utilization of existing facilities.

The actual enrollment of Harford County Public Schools (HCPS) is retained as base enrollment for the modified enrollment projections. HCPS first-year projected enrollment figures are also retained as they have been shown to be historically accurate.

Water and Sewer Facility Projection Methodology

Water:

The Harford County water service area is divided into four pressure zones due to varying topography within the Development Envelope. To provide an adequate supply of water, the transmission lines, and pumping and storage facilities for all zones must be sized for estimated future demands.

The water system is evaluated for adequacy for providing flows during the maximum day demand, while maintaining system pressures required to deliver fire flows. Water booster stations and/or transmission lines, service mains, storage tanks, and water treatment plants are evaluated. Areas within the Harford County Development Envelope that exist at the highest elevations of the water pressure zones are evaluated for adequacy on a case-by-case basis. The anticipated growth within the County is accommodated through a combination of developer funded projects and the County Capital Improvement Program.

Sewerage:

The sewerage system is similarly evaluated for adequacy to accommodate expected peak flows through collectors, interceptors, pump stations, force mains, and wastewater treatment plants. Should a capacity problem exist in a collector sewer, it is the developer's responsibility to resolve the inadequacy. Inadequacies at major pumping

stations and wastewater treatment plants are resolved by programmed capital projects or by projects cooperatively supported by a group of developers.

The sewage flows to Harford County's existing Sod Run and Joppatowne Wastewater Treatment Plants (WWTP) originate from a portion of the Development Envelope. The area between the municipalities of Aberdeen and Havre de Grace, as well as the cities themselves, are within the Development Envelope and are served by the municipal sewerage facilities. A complete "Sewer System Capacity Analysis" is included in the "2019 Water and Sewer Adequate Public Facilities Report."

The determination of future wastewater flows to wastewater treatment plants is made by using population and household projections developed by the Harford County Department of Planning and Zoning for the years 2000 through 2035. The projections were distributed by transportation analysis zones (TAZs) by aggregating the ultimate development in terms of equivalent dwelling units into sewerage drainage areas. In order to keep pace with projected growth, the expansion of the Sod Run Wastewater Treatment Plant from 12 MGD in 1995 to 20 MGD was completed in 2000. A sanitary sewer collection system has also been established in Whiteford-Cardiff, which serves the properties within an established sanitary subdistrict. This system was made operational in 2001 with 172 mandatory hook-ups completed in 2002. Treatment for this subdistrict is provided by Delta Borough, Pennsylvania, with a current permitted average flow of 0.12 MGD.

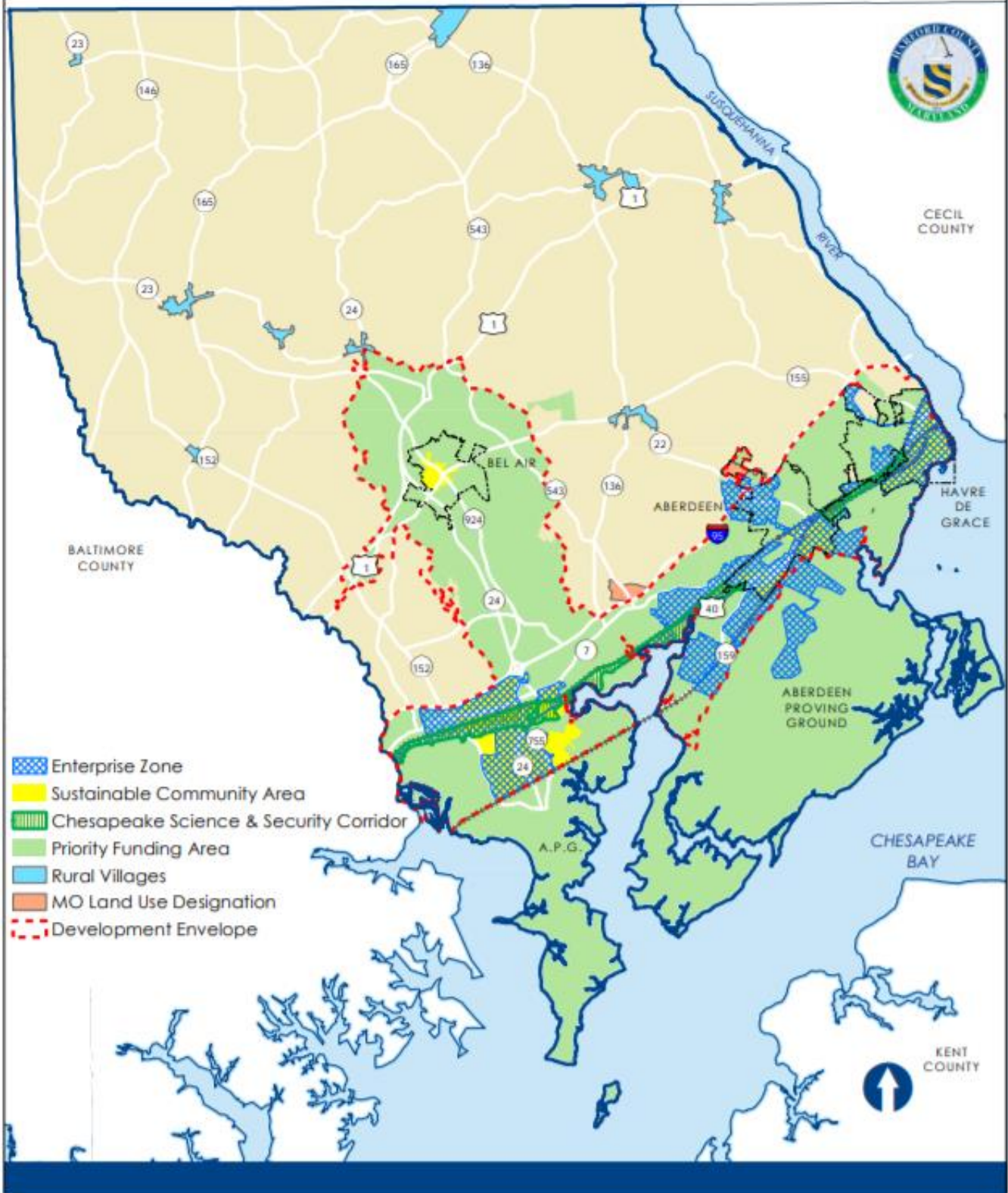
In addition to the major publicly owned wastewater treatment plants, there are multiple private wastewater treatment systems, including mobile home parks and other commercial/community establishments, plus a larger population on private individual septic systems outside the Development Envelope. In addition, many of the schools outside the public sewerage service area are on publicly owned multi-use wastewater treatment systems.

Road Intersection Analysis Methodology

A key feature of the APF Road Intersection regulations is the requirement for preparation of a Traffic Impact Analysis (TIA) for residential and non-residential uses that are projected to generate more than 249 trips per day. Proposed development located within the Chesapeake Science and Security Corridor (CSSC) (Figure 15) will not be required to submit a TIA unless the proposed use is expected to generate 1,500 trips per day. The TIA provides information regarding the impact of generated trips from proposed land uses on traffic safety and traffic operation within a designated area and recommends solutions to mitigate the impact. The method of conducting a TIA is outlined in the "Harford County Traffic Impact Analysis Guidelines".

FIGURE 15

Priority Redevelopment Areas



Inside the Development Envelope:

The TIA shall include all existing County and state roads in all directions, from each point of entrance of site through the intersection with the first arterial roadway to the next intersecting collector or higher functional classification road. Developments which generate 1,500 or more trips per day may be required to expand the study area.

Outside the Development Envelope:

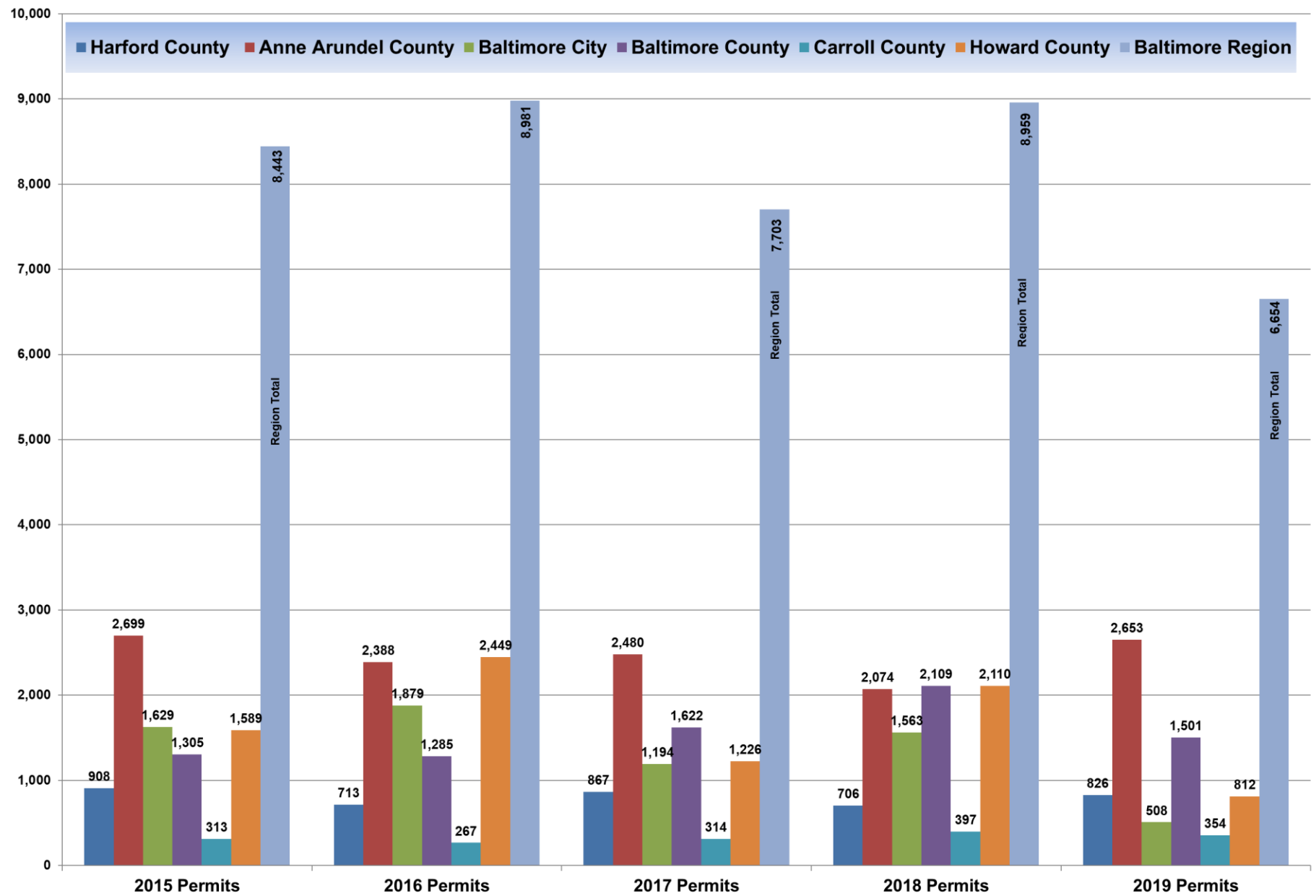
The TIA study area shall include all existing County and state roads in all directions from each point of entrance of the site to the first intersection of a major collector or higher functional classification road as defined by the Harford County Transportation Plan.

All TIA's shall include:

- An analysis of existing conditions including traffic counts, lane configuration, and signal timings.
- An analysis of background conditions without site development, including growth in background traffic, future traffic generated by nearby proposed developments and the determination of Level-of-Service (LOS) with any approved/funded State and County Capital projects.
- An analysis of the projected conditions with site development, including the traffic being generated by the proposed development and background traffic.
- An explanation of the results with recommended improvements, as necessary.

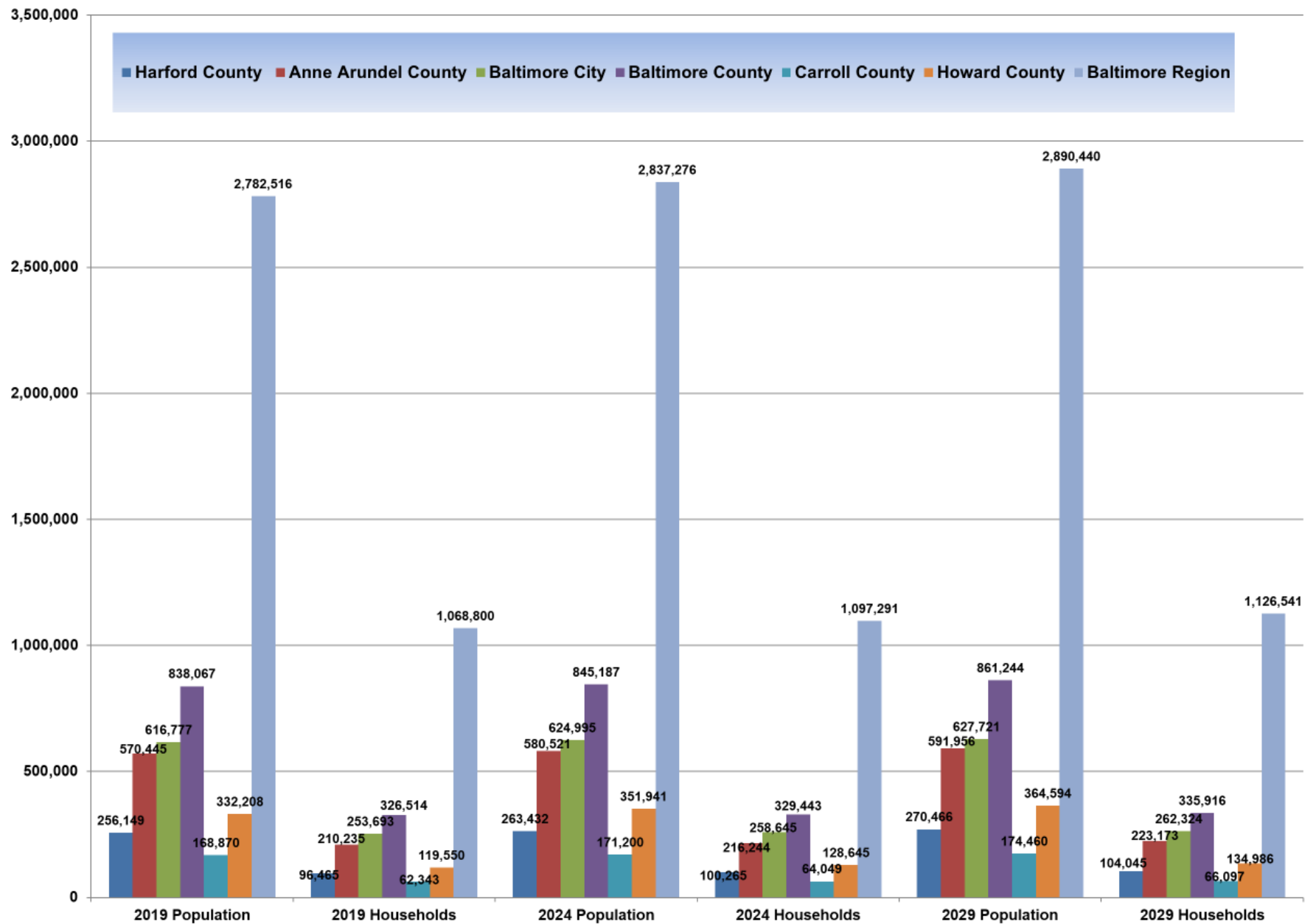
APPENDIX A

Table 1A Harford County - Baltimore Region Residential Permit Activity: 2015 - 2019



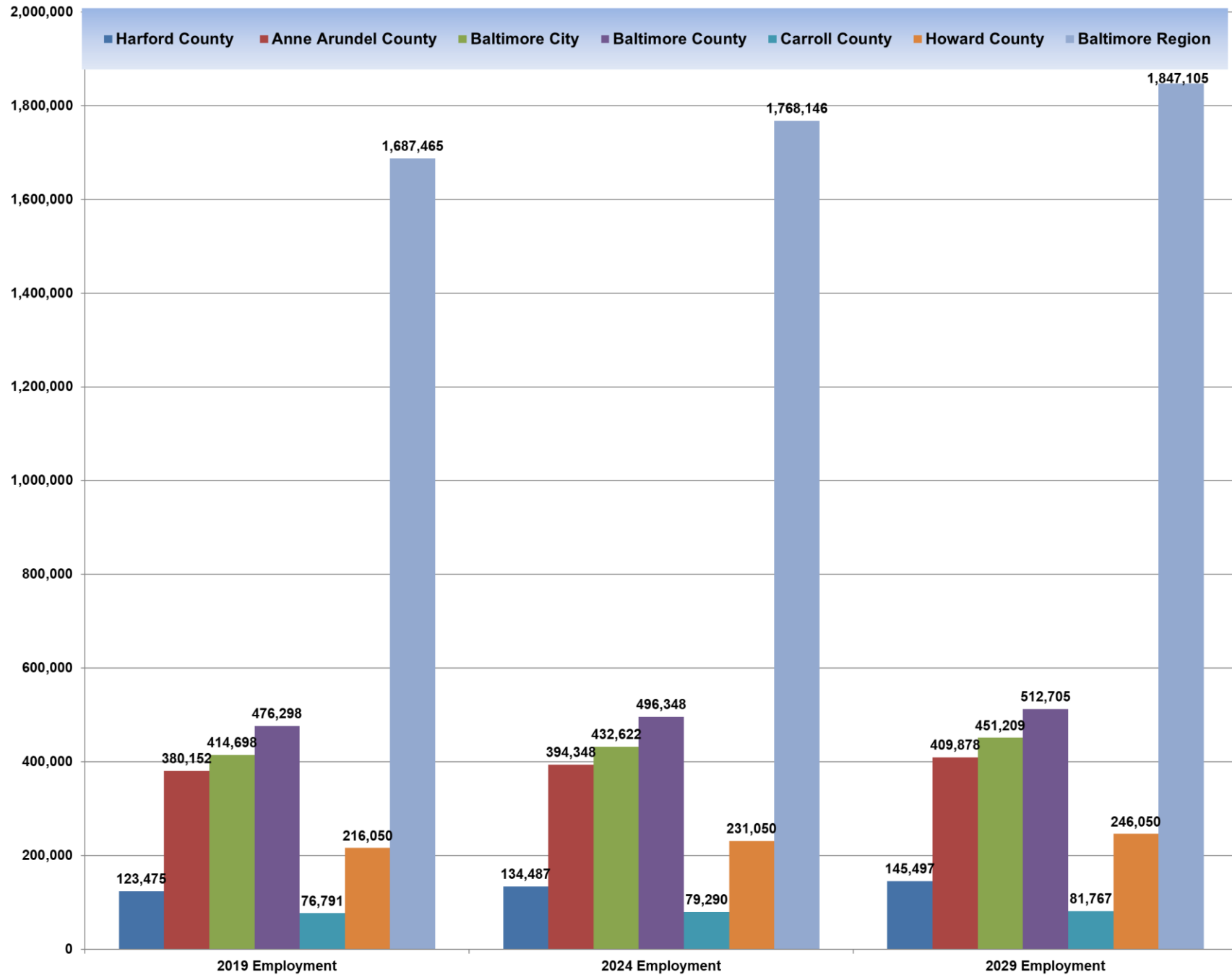
Source: Baltimore Metropolitan Council, May 2020

Table 2A
Harford County - Baltimore Region Population and Household Projections: 2019 - 2029



Source: Baltimore Metropolitan Council, May 2020

Table 3A
Harford County - Baltimore Region Employment Projections: 2019 - 2029



Harford County Non-Residential Permit Activity

New Permits Valued \$50,000 and Over

Permit Type	2015		2016		2017		2018		2019	
	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage
Commercial	14	221,386	8	78,246	2	16,091	5	46,824	10	221,274
Industrial	0	0	1	12,000	2	663,880	4	865,212	4	24,986
Institutional	4	35,296	0	0	0	0	1	250,111	6	60,680
Utilities	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	18	256,682	9	90,246	4	679,971	10	1,162,147	20	306,940

Source: Baltimore Metropolitan Council, May 2020

Table 5A

Harford County Non-Residential Permit Activity Additions, Alterations, and Repairs Valued \$50,000 and Over

Permit Type	2015		2016		2017		2018		2019	
	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage	# of Permits	Square Footage
Commercial	28	NA	29	NA	23	NA	23	NA	8	NA
Industrial	17	NA	9	NA	3	NA	5	NA	6	NA
Institutional	16	NA	8	NA	2	NA	5	NA	2	NA
Utilities	9	NA	0	NA	0	NA	6	NA	0	NA
Total	70	NA	46	NA	28	NA	39	NA	16	NA

NA: Data Not Available

Source: Baltimore Metropolitan Council, May 2020

APPENDIX B

FIGURE 1B

Elementary School Districts

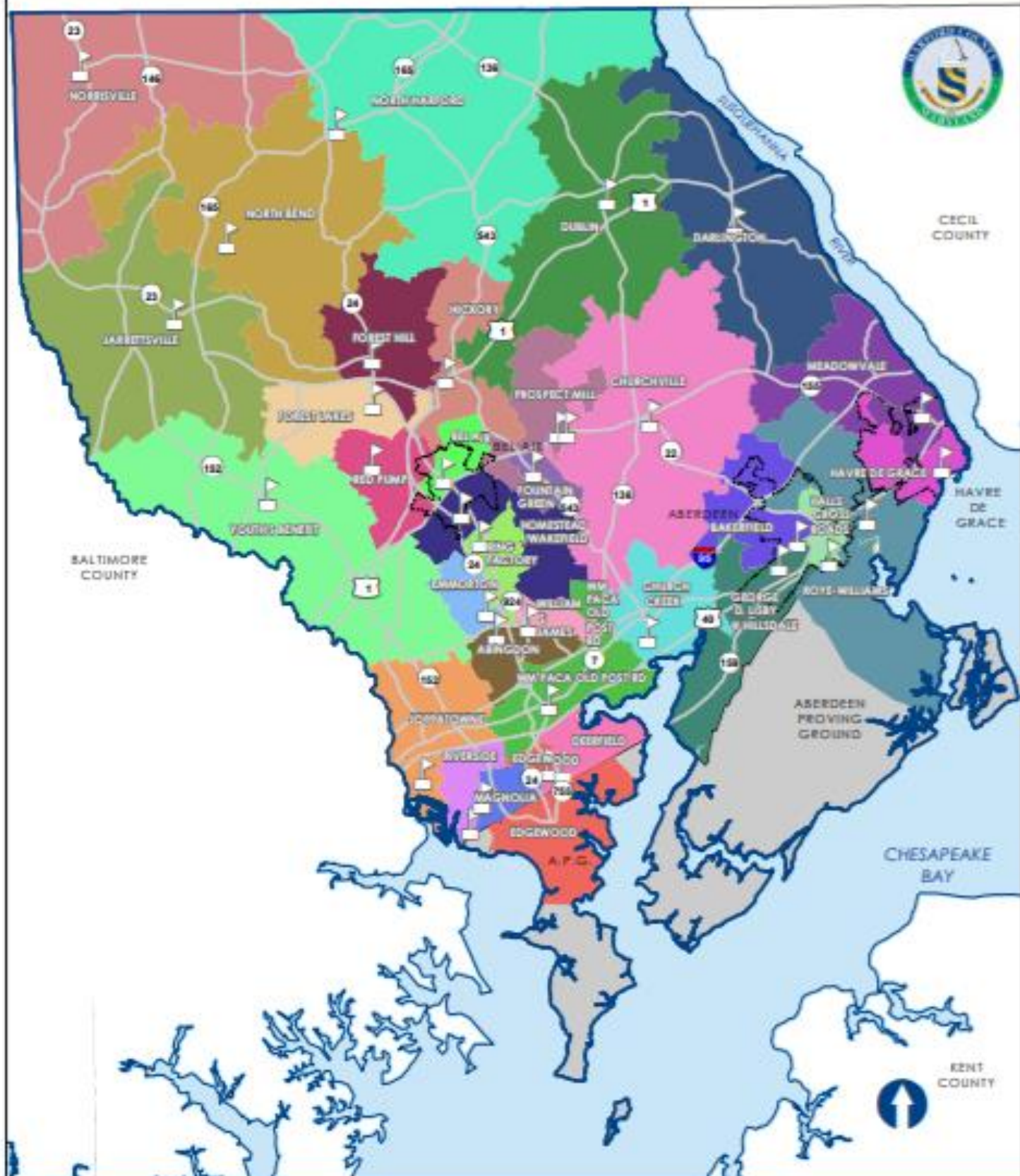


Table 6B

Harford County Elementary Schools 2019 Utilization Chart									
Elementary School	State-Rated Capacity	Actual		Projected		Projected		Projected	
		2019 - 2020		2020 - 2021		2021 - 2022		2022 - 2023	
		ENROLL	% UTIL.	ENROLL	% UTIL.	ENROLL	% UTIL.	ENROLL	% UTIL.
Abingdon	863	725	84%	701	81%	689	80%	676	78%
Bakerfield	500	427	85%	430	86%	433	87%	436	87%
Bel Air	486	531	109%	549	113%	549	113%	551	113%
Church Creek	819	697	85%	691	84%	685	84%	679	83%
Churchville	411	370	90%	368	90%	366	89%	364	89%
Darlington	157	104	66%	103	66%	102	65%	100	64%
Deerfield	788	752	95%	744	94%	735	93%	727	92%
Dublin	294	230	78%	226	77%	222	76%	218	74%
Edgewood	461	406	88%	423	92%	424	92%	417	90%
Emmorton*	570	592	104%	604	106%	616	108%	628	110%
Forest Hill	568	507	89%	507	89%	508	89%	508	89%
Forest Lakes	569	445	78%	455	80%	471	83%	469	82%
Fountain Green	548	484	88%	480	88%	477	87%	473	86%
G. Lisby at Hillsdale	455	413	91%	411	90%	408	90%	406	89%
Hall's Cross Roads	552	453	82%	459	83%	478	87%	474	86%
Havre de Grace	542	610	113%	631	116%	638	118%	631	116%
Hickory	668	691	103%	693	104%	712	107%	709	106%
Homestead/Wakefield*	920	1,034	112%	1,055	115%	1,091	119%	1,096	119%
Jarrettsville	525	450	86%	458	87%	444	85%	434	83%
Joppatowne	663	617	93%	628	95%	614	93%	610	92%
Magnolia*	561	550	98.0%	563	100%	576	103%	590	105%
Meadowvale	568	518	91%	517	91%	516	91%	516	91%
Norrisville	274	218	80%	223	81%	229	84%	235	86%
North Bend	498	402	81%	407	82%	423	85%	422	85%
North Harford	500	373	75%	381	76%	381	76%	374	75%
Prospect Mill	611	591	97%	603	99%	597	98%	607	99%
Red Pump*	737	772	105%	810	110%	830	113%	832	113%
Ring Factory	548	539	98%	549	100%	540	99%	542	99%
Riverside	588	462	79%	459	78%	457	78%	454	77%
Roye-Williams	703	491	70%	495	70%	498	71%	502	71%
Wm. Paca / Old Post Rd.	984	865	88%	873	89%	902	92%	902	92%
Wm. S. James	526	472	90%	485	92%	477	91%	479	91%
Youth's Benefit	1,120	1,057	94%	1,097	98%	1,092	98%	1,090	97%
TOTAL	19,577	17,848	91%	18,078	92%	18,180	93%	18,151	93%

*Note: preliminary subdivisions and residential site plans of greater than five lots/units will not be approved in attendance areas that are shaded.

Source: Harford County Public Schools & Dept. of Planning and Zoning, December 2019.

Table 7B

Harford County Modified Elementary School Enrollment Projections								
School District	2019	2020	2021	222	2223	2224	2225	2226
Abingdon	725	733	745	763	786	815	851	880
Bakerfield	427	415	400	383	365	346	324	305
Bel Air	531	556	580	601	620	637	652	669
Church Creek	697	721	748	777	811	850	893	932
Churchville	370	391	415	442	472	506	544	578
Darlington	104	91	77	63	51	41	32	21
Deerfield	752	759	765	771	777	783	789	795
Dublin	230	209	190	172	156	141	127	112
Edgewood	406	396	383	367	350	331	310	291
Emmorton	592	656	730	816	919	1,039	1,182	1,304
Forest Hill	507	544	579	609	637	660	677	699
Forest Lakes	445	414	379	342	303	264	226	188
Fountain Green	484	473	455	430	401	366	329	296
G. Lisby at Hillsdale	413	400	400	413	440	483	546	590
Hall's Cross Roads	453	450	448	448	450	454	460	464
Havre de Grace	610	706	834	1,006	1,236	1,552	1,990	2,319
Hickory	691	706	718	728	735	740	741	745
Homestead/Wakefield	1,034	1,083	1,142	1,210	1,291	1,384	1,493	1,587
Jarrettsville	450	437	422	404	384	363	341	320
Joppatowne	617	616	613	609	602	595	586	578
Magnolia	550	582	632	704	804	942	1,133	1,276
Meadowvale	518	516	515	515	515	516	517	518
Norrisville	218	266	337	440	594	829	1,195	1,447
North Bend	402	464	521	567	600	618	618	634
North Harford	373	330	288	248	210	176	145	111
Prospect Mill	591	556	515	470	423	375	328	280
Red Pump	772	838	923	1,029	1,162	1,329	1,542	1,714
Ring Factory	539	573	613	661	716	781	856	922
Riverside	462	478	489	494	491	483	468	459
Roye-Williams	491	494	516	559	630	739	899	1,012
Wm. Paca / Old Post Rd.	865	878	896	918	945	977	1,015	1,047
Wm. S. James	472	448	418	381	342	301	258	217
Youth's Benefit	1,057	1,071	1,081	1,086	1,087	1,084	1,077	1,073
Total	19,867	20,270	20,785	19,651	22,529	23,721	25,369	26,609

Table 8B

Harford County Residential Building Permit Activity By Elementary School District: 2015 - 2019																									
ELEMENTARY SCHOOL	2015					2016					2017					2018					2019				
	BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE				
	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL
Abingdon	3	0	84	0	87	1	0	0	0	1	12	11	138	0	161	9	0	0	0	9	1	0	57	0	58
Bakerfield	22	0	32	0	54	26	0	0	0	26	0	0	0	0	0	2	0	0	0	2	3	0	0	0	3
Bel Air	4	0	0	0	4	2	0	0	0	2	3	0	0	0	3	1	0	0	0	1	0	12	8	0	20
Church Creek	1	8	0	0	9	0	16	0	0	16	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
Churchville	6	0	0	0	6	5	0	0	0	5	4	0	0	0	4	3	0	0	0	3	9	0	0	0	9
Darlington	1	0	0	0	1	1	0	0	0	1	3	0	0	1	4	2	0	0	0	2	3	0	0	0	3
Deerfield	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
Dublin	7	0	0	0	7	7	0	0	1	8	8	0	0	1	9	5	0	0	0	5	5	0	0	0	5
Edgewood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Emmorton	7	38	72	0	117	9	0	126	0	135	21	0	0	0	21	39	0	0	0	39	32	0	0	0	32
Forest Hill	12	0	0	0	12	12	0	0	0	12	23	0	0	0	23	18	0	0	0	18	14	0	0	0	14
Forest Lakes	1	0	0	0	1	6	0	0	0	6	3	0	0	0	3	3	0	0	0	3	1	0	0	0	1
Fountain Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G. Lisby at Hillsdale	24	15	0	0	39	3	0	0	0	3	9	0	0	0	9	33	6	0	0	39	143	122	0	0	265
Hall's Cross Roads	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3	0	0	0	3
Havre de Grace	37	4	0	0	41	30	34	0	0	64	49	65	0	0	114	81	40	0	0	121	36	13	0	0	49
Hickory	30	11	0	0	41	22	30	0	0	52	11	0	0	0	11	23	0	0	0	23	0	0	0	0	0
Homestead/Wakefield	6	9	38	0	53	24	46	37	0	107	20	37	0	0	57	30	51	0	0	81	47	40	39	0	126
Jarrettsville	10	0	0	1	11	5	0	0	0	5	7	0	0	1	8	11	0	0	0	11	16	0	0	0	16
Joppatowne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	0	0	0	1
Magnolia	6	0	0	0	6	31	0	0	0	31	33	0	0	0	33	10	48	0	0	58	0	0	0	0	0
Meadowvale	2	0	0	1	3	0	0	0	1	1	5	0	0	0	5	0	0	0	0	0	2	37	0	0	39
Norrisville	5	0	0	0	5	3	0	0	0	3	12	0	0	0	12	10	0	0	0	10	4	0	0	1	5
North Bend	10	0	0	1	11	18	0	0	1	19	27	0	0	1	28	14	0	0	1	15	8	0	0	0	8
North Harford	12	0	0	0	12	10	0	0	1	11	16	0	0	0	16	18	0	0	0	18	6	0	0	0	6
Prospect Mill	2	0	0	0	2	1	0	0	0	1	0	12	0	0	12	9	58	0	0	67	31	55	0	0	86
Red Pump	23	0	288	0	311	31	0	0	0	31	11	0	0	0	11	17	0	37	0	54	6	0	0	0	6
Ring Factory	1	0	0	0	1	5	0	0	0	5	4	0	0	1	5	1	0	0	0	1	1	0	0	0	1
Riverside	0	0	0	0	0	5	5	0	0	10	1	9	0	0	10	1	0	0	0	1	1	0	0	0	1
Roye-Williams	21	0	0	0	21	21	0	48	0	69	20	0	144	0	164	4	3	0	0	7	3	0	0	0	3
Wm. Paca/Old Post Rd	5	0	0	0	5	6	0	0	0	6	4	11	0	0	15	12	22	0	0	34	11	0	0	0	11
Wm. S. James	3	4	0	0	7	13	16	0	0	29	18	28	0	0	46	23	8	0	0	31	25	0	0	0	25
Youth's Benefit	11	28	0	1	40	9	44	0	0	53	46	33	0	0	79	48	0	0	0	48	30	0	0	0	30
TOTAL	273	117	514	4	908	307	191	211	4	713	374	206	282	5	867	432	236	37	1	706	442	279	104	1	826

* Note: Permit totals revised to reflect cancelled permits.

Source: Harford County Dept. of Planning & Zoning, May 2020.

KEY: SF = Single Family Dwelling; TH = Townhouse; APT/CO = Apartment/Condominium; MH = Mobile Home

Table 9B

Harford County Population and Households By Elementary School District: 2015 - 2019										
Elementary School	2015		2016		2017		2018		2019	
	Households	Population	Households	Population	Households	Population	Households	Population	Households	Population
Abingdon	5,014	13,427	5,096	13,612	5,097	13,568	5,250	13,961	5,291	14,048
Bakerfield	2,509	6,718	2,560	6,837	2,585	6,880	2,585	6,873	2,605	6,916
Bel Air	3,051	8,171	3,055	8,160	3,057	8,137	3,060	8,137	3,083	8,187
Church Creek	4,033	10,802	4,042	10,795	4,057	10,800	4,058	10,791	4,089	10,859
Churchville	2,483	6,650	2,489	6,647	2,494	6,638	2,497	6,641	2,517	6,683
Darlington	1,012	2,710	1,013	2,705	1,014	2,698	1,017	2,706	1,025	2,723
Deerfield	3,265	8,744	3,266	8,723	3,267	8,696	3,268	8,690	3,293	8,744
Dublin	1,690	4,525	1,696	4,530	1,704	4,535	1,712	4,554	1,726	4,582
Edgewood	1,256	3,363	1,256	3,354	1,256	3,342	1,256	3,339	1,265	3,360
Emmorton	2,517	6,740	2,613	6,979	2,741	7,296	2,761	7,342	2,782	7,388
Forest Hill	2,422	6,487	2,434	6,500	2,445	6,509	2,467	6,560	2,486	6,601
Forest Lakes	2,848	7,629	2,849	7,611	2,855	7,600	2,858	7,600	2,880	7,648
Fountain Green	1,899	5,085	1,899	5,071	1,899	5,054	1,899	5,049	1,913	5,081
G. Lisby at Hillsdale	2,480	6,642	2,517	6,723	2,520	6,708	2,528	6,724	2,548	6,766
Hall's Cross Roads	2,006	5,373	2,006	5,359	2,006	5,341	2,008	5,341	2,024	5,374
Havre de Grace	3,713	9,944	3,752	10,021	3,813	10,149	3,921	10,427	3,951	10,492
Hickory	2,936	7,864	2,975	7,947	3,025	8,051	3,035	8,071	3,058	8,121
Homestead/Wakefield	5,423	14,523	5,488	14,659	5,590	14,880	5,648	15,020	5,692	15,113
Jarrettsville	2,778	7,440	2,789	7,448	2,793	7,436	2,801	7,449	2,823	7,495
Joppatowne	3,860	10,338	3,860	10,310	3,860	10,276	3,860	10,265	3,890	10,329
Magnolia	1,783	4,776	1,789	4,779	1,819	4,841	1,850	4,919	1,864	4,950
Meadowvale	2,631	7,045	2,633	7,034	2,634	7,013	2,639	7,018	2,660	7,062
Norrisville	1,282	3,433	1,287	3,437	1,290	3,433	1,301	3,460	1,311	3,481
North Bend	2,275	6,092	2,285	6,104	2,303	6,131	2,330	6,196	2,348	6,234
North Harford	2,363	6,328	2,374	6,341	2,385	6,348	2,400	6,382	2,418	6,422
Prospect Mill	2,864	7,669	2,866	7,654	2,867	7,631	2,878	7,653	2,900	7,701
Red Pump	3,954	10,589	4,250	11,350	4,279	11,390	4,289	11,407	4,323	11,478
Ring Factory	2,722	7,289	2,722	7,272	2,727	7,260	2,732	7,265	2,753	7,310
Riverside	2,498	6,690	2,498	6,672	2,507	6,675	2,517	6,693	2,536	6,735
Roye-Williams	1,884	5,046	1,904	5,086	1,970	5,243	2,125	5,652	2,142	5,687
Wm. Paca/Old Post Rd	4,616	12,362	4,621	12,342	4,626	12,315	4,641	12,341	4,677	12,418
Wm. S. James	1,974	5,286	1,981	5,290	2,008	5,345	2,052	5,456	2,068	5,490
Youth's Benefit	5,319	14,245	5,357	14,309	5,407	14,394	5,482	14,579	5,525	14,670
TOTAL	93,358	250,025	94,221	251,660	94,898	252,615	96,465	256,149	96,465	256,149

* Note: Population and household figures have been revised to reflect 2010 Census data (April 1 of each year).

Source: Harford County Dept. of Planning & Zoning, May 2020.

FIGURE 2B

Middle School Districts



Table 10B

Harford County Middle Schools 2019 Utilization Chart									
Middle School	State-Rated Capacity	Actual				Projected			
		2019 - 2020		2020 - 2021		2021 - 2022		2022 - 2023	
		ENROLL	%UTIL	ENROLL	%UTIL	ENROLL	%UTIL	ENROLL	%UTIL
Aberdeen	1,624	1,203	74%	1,197	74%	1,230	76%	1,251	77%
Bel Air	1,243	1,435	115%	1,461	118%	1,484	119%	1,457	117%
Edgewood	1,295	1,161	90%	1,191	92%	1,195	92%	1,193	92%
Fallston	1,063	935	88%	927	87%	947	89%	959	90%
Havre de Grace	733	601	82%	625	85%	635	87%	627	86%
Magnolia	1,028	835	81%	847	82%	865	84%	860	84%
North Harford	1,210	929	77%	932	77%	947	78%	934	77%
Patterson Mill	731	764	105%	773	106%	793	108%	798	109%
Southampton	1,444	1,261	87%	1,268	88%	1,272	88%	1,275	88%
Total	10,371	9,124	88%	9,221	89%	9,368	90%	9,354	90%

Source: Harford County Public Schools & Dept. of Planning and Zoning, December 2019.

Table 11B

Harford County Modified Middle School Enrollment Projections								
School District	2019	2020	2021	2022	2023	2024	2025	2026
Aberdeen	1,203	1,151	1,168	1,185	1,201	1,220	1,238	1,255
Bel Air	1,435	1,402	1,370	1,395	1,420	1,445	1,470	1,494
Edgewood	1,161	1,129	1,097	1,126	1,153	1,183	1,212	1,241
Fallston	935	955	975	990	1,007	1,023	1,038	1,054
Havre de Grace	601	573	547	558	569	580	592	603
Magnolia	835	739	654	659	665	670	675	681
North Harford	929	895	863	861	858	856	853	851
Patterson Mill	764	708	657	657	657	657	657	657
Southampton	1,261	1,235	1,209	1,219	1,230	1,241	1,253	1,264
Total	9,124	8,787	8,540	8,649	8,760	8,874	8,988	9,101

Table 12B

Harford County Residential Building Permit Activity By Middle School District: 2015 - 2019																									
MIDDLE SCHOOL	2015					2016					2017					2018					2019				
	BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE				
	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL
Aberdeen	68	23	32	0	123	51	16	48	0	115	32	0	144	0	176	39	6	0	0	45	153	122	0	0	275
Bel Air	48	44	72	0	164	62	36	126	0	224	37	33	0	0	70	71	49	37	0	157	59	49	47	0	155
Edgewood	8	0	84	0	92	8	0	0	0	8	18	22	138	0	178	21	22	0	0	43	15	0	57	0	72
Fallston	16	28	288	1	333	16	44	0	0	60	48	33	0	1	82	64	0	0	0	64	38	0	0	0	38
Havre de Grace	40	4	0	1	45	32	34	0	1	67	56	65	0	1	122	83	43	0	0	126	43	50	0	0	93
Magnolia	6	0	0	0	6	36	5	0	0	41	34	9	0	0	43	13	48	0	0	61	1	0	0	0	1
North Harford	49	0	0	2	51	56	0	0	3	59	91	0	0	2	93	69	0	0	1	70	46	0	0	1	47
Patterson Mill	8	7	38	0	53	29	26	37	0	92	40	32	0	1	73	36	10	0	0	46	48	3	0	0	51
Southampton	30	11	0	0	41	17	30	0	0	47	18	12	0	0	30	36	58	0	0	94	39	55	0	0	94
TOTAL	273	117	514	4	908	307	191	211	4	713	374	206	282	5	867	432	236	37	1	706	442	279	104	1	826

Note: Permits totals revised for cancelled permits.

Table 13B

Harford County Population and Households By Middle School District: 2015 - 2019										
SCHOOL	2015		2016		2017		2018		2019	
	Households	Population	Households	Population	Households	Population	Households	Population	Households	Population
Aberdeen	13,544	36,272	13,665	36,498	13,774	36,665	13,941	37,073	14,049	37,304
Bel Air	14,205	38,043	14,361	38,357	14,574	38,794	14,640	38,932	14,753	39,175
Edgewood	14,137	37,860	14,224	37,992	14,232	37,884	14,401	38,295	14,512	38,534
Fallston	9,053	24,244	9,369	25,025	9,426	25,092	9,504	25,274	9,578	25,432
Havre de Grace	7,570	20,274	7,609	20,324	7,673	20,425	7,789	20,712	7,849	20,842
Magnolia	8,025	21,492	8,031	21,450	8,070	21,481	8,110	21,568	8,173	21,703
North Harford	10,491	28,097	10,540	28,151	10,596	28,205	10,684	28,412	10,767	28,589
Patterson Mill	6,284	16,830	6,334	16,919	6,422	17,095	6,495	17,271	6,545	17,379
Southampton	10,049	26,913	10,088	26,945	10,133	26,973	10,161	27,022	10,240	27,190
TOTAL	93,358	250,025	94,221	251,660	94,898	252,615	95,725	254,560	96,465	256,149

* Note: Population and household figures have been revised to reflect 2010 Census data (April 1 of each year).

Source: Harford County Dept. of Planning and Zoning, May 2020.

FIGURE 38

High School Districts



Table 14B

Harford County High Schools 2019 Utilization Chart									
High School	State- Rated Capacity	Actual		Projected					
		2019 - 2020		2020 - 2021		2021 - 2022		2022 - 2023	
		ENROLL	%UTIL	ENROLL	%UTIL	ENROLL	%UTIL	ENROLL	%UTIL
Aberdeen	1,720	1,433	83%	1,494	87%	1,534	89%	1,589	92%
Bel Air	1,768	1,559	88%	1,569	89%	1,574	89%	1,574	89%
C. Milton Wright	1,613	1,362	84%	1,334	83%	1,363	85%	1,379	85%
Edgewood	1,716	1,458	85%	1,468	86%	1,508	88%	1,533	89%
Fallston	1,573	974	62%	987	63%	988	63%	988	63%
Harford Technical	1,135	999	88%	1,007	89%	999	88%	999	88%
Havre de Grace	835	664	80%	704	84%	730	87%	754	90%
Joppatowne	1,056	745	71%	776	73%	759	72%	771	73%
North Harford	1,538	1,256	82%	1,259	82%	1,253	81%	1,247	81%
Patterson Mill	992	825	83%	856	86%	865	87%	859	87%
Total	13,946	11,275	81%	11,454	82%	11,573	83%	11,693	84%

Source: Harford County Public Schools & Dept. of Planning and Zoning, November, 2019.

Table 15B

Harford County Modified High School Enrollment Projections								
School District	2019	2020	2021	2022	2023	2024	2025	2026
Aberdeen	1433	1434	1435	1436	1437	1438	1439	1440
Bel Air	1559	1560	1561	1562	1563	1564	1565	1566
C. Milton Wright	1362	1363	1364	1365	1366	1367	1368	1369
Edgewood	1458	1459	1460	1461	1462	1463	1464	1465
Fallston	974	975	976	977	978	979	980	981
Havre de Grace	664	665	666	667	668	669	670	671
Joppatowne	745	746	747	748	749	750	751	752
North Harford	1256	1257	1258	1259	1260	1261	1262	1263
Patterson Mill	825	826	827	828	829	830	831	832
Total	12,295	12,305	12,315	12,325	12,335	12,345	12,355	12,365

Table 16B

Harford County Residential Building Permit Activity By High School District: 2015 -2019																									
HIGH SCHOOL	2015					2016					2017					2018					2019				
	BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE					BUILDING PERMITS ISSUED BY DWELLING TYPE				
	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL
Aberdeen	68	23	32	0	123	52	16	48	0	116	33	0	144	0	177	38	6	0	0	44	153	122	0	0	275
Bel Air	48	44	72	0	164	62	36	126	0	224	37	33	0	0	70	71	49	37	0	157	59	49	47	0	155
C.M. Wright	30	11	0	0	41	17	30	0	0	47	18	12	0	0	30	36	58	0	0	94	39	55	0	0	94
Edgewood	8	0	84	0	92	8	0	0	0	8	18	22	138	0	178	22	22	0	0	44	15	0	57	0	72
Fallston	16	28	288	1	333	16	44	0	0	60	48	33	0	1	82	64	0	0	0	64	38	0	0	0	38
Havre de Grace	40	4	0	1	45	32	34	0	1	67	59	64	0	1	124	83	43	0	0	126	43	50	0	0	93
Joppatowne	6	0	0	0	6	36	5	0	0	41	34	9	0	0	43	13	48	0	0	61	1	0	0	0	1
North Harford	49	0	0	2	51	56	0	0	3	59	91	0	0	2	93	69	0	0	1	70	46	0	0	1	47
Patterson Mill	8	7	38	0	53	29	26	37	0	92	40	32	0	1	73	36	10	0	0	46	48	3	0	0	51
TOTAL	273	117	514	4	908	308	191	211	4	714	378	205	282	5	870	432	236	37	1	706	442	279	104	1	826

Note: Permits totals revised for cancelled permits.

Source: Harford County Dept. of Planning & Zoning, May 2020.

KEY: SF = Single Family Dwelling; TH = Townhouse; APT/CO = Apartment/Condominium; MH = Mobile Home

Table 17B

Harford County Population and Households By High School District: 2015 - 2019										
SCHOOL	2015		2016		2017		2018		2019	
	Households	Population	Households	Population	Households	Population	Households	Population	Households	Population
Aberdeen	13,331	35,798	13,544	36,272	13,665	36,498	13,941	37,073	14,049	37,304
Bel Air	14,147	37,988	14,205	38,043	14,361	38,357	14,640	38,932	14,640	38,932
C. Milton Wright	10,021	26,908	10,049	26,913	10,088	26,945	10,161	27,021	10,161	27,021
Edgewood	13,903	37,333	14,137	37,860	14,224	37,992	14,401	38,295	14,401	38,295
Fallston	9,003	24,176	9,053	24,244	9,369	25,025	9,504	25,274	9,504	25,274
Havre de Grace	7,522	20,198	7,570	20,274	7,609	20,324	7,789	20,712	7,789	20,712
Joppatowne	7,990	21,454	8,025	21,492	8,031	21,450	8,110	21,568	8,110	21,568
North Harford	10,466	28,105	10,491	28,097	10,540	28,151	10,684	28,412	10,684	28,412
Patterson Mill	6,272	16,841	6,284	16,830	6,334	16,919	6,495	17,272	6,495	17,272
TOTAL	92,655	248,800	93,358	250,025	94,221	251,660	95,725	254,560	96,465	256,149

* Note: Population and household figures have been revised to reflect 2010 Census data (April 1 of each year).

Source: Harford County Dept. of Planning and Zoning, May 2020.

APPENDIX C

Table 18C

JANUARY - DECEMBER 2019			
WATER CONSUMPTION & SEWAGE GENERATION			
Total Number of Accounts	Retail	Water and Sewer	40,630
		Water Only	1,599
		Sewer Only	3,182
	Wholesale	Water Only	16
		Sewer Only	3
	Total	Water and Sewer	45,430
WATER			
Total Number of Water Accounts (VBA)	Retail	Water	42,229
	Wholesale	Water	16
Average Daily Water Production Total Retail and Wholesale Customers	13.3 MGD		
Maximum Day Water Production Total Retail and Wholesale Customers	17.8 MGD		
Average Water Usage per Account – All Retail Accounts	196 MGD		
Average Residential Water Usage per Account – Retail Accounts	164 MGD		
Average Commercial / Industrial Water Usage per Account – Retail Accounts	1423 MGD		
SEWAGE			
Total Number of Sewer Accounts	Retail	Sewer	43,812
	Wholesale	Sewer	3
Average Treated Sewage Flow – Total Retail and Wholesale Customers	12.7 MGD		
Maximum Day Treated Sewage Flow – Total Retail and Wholesale Customers	26.1 MGD		
Average Sewage Generation per Account – All Retail Accounts	196 MGD		
Average Residential Sewage Generation per Account – Retail Accounts	164 MGD		
Average Commercial / Industrial Sewage Generation per Account – Retail Accounts	1423 MGD		

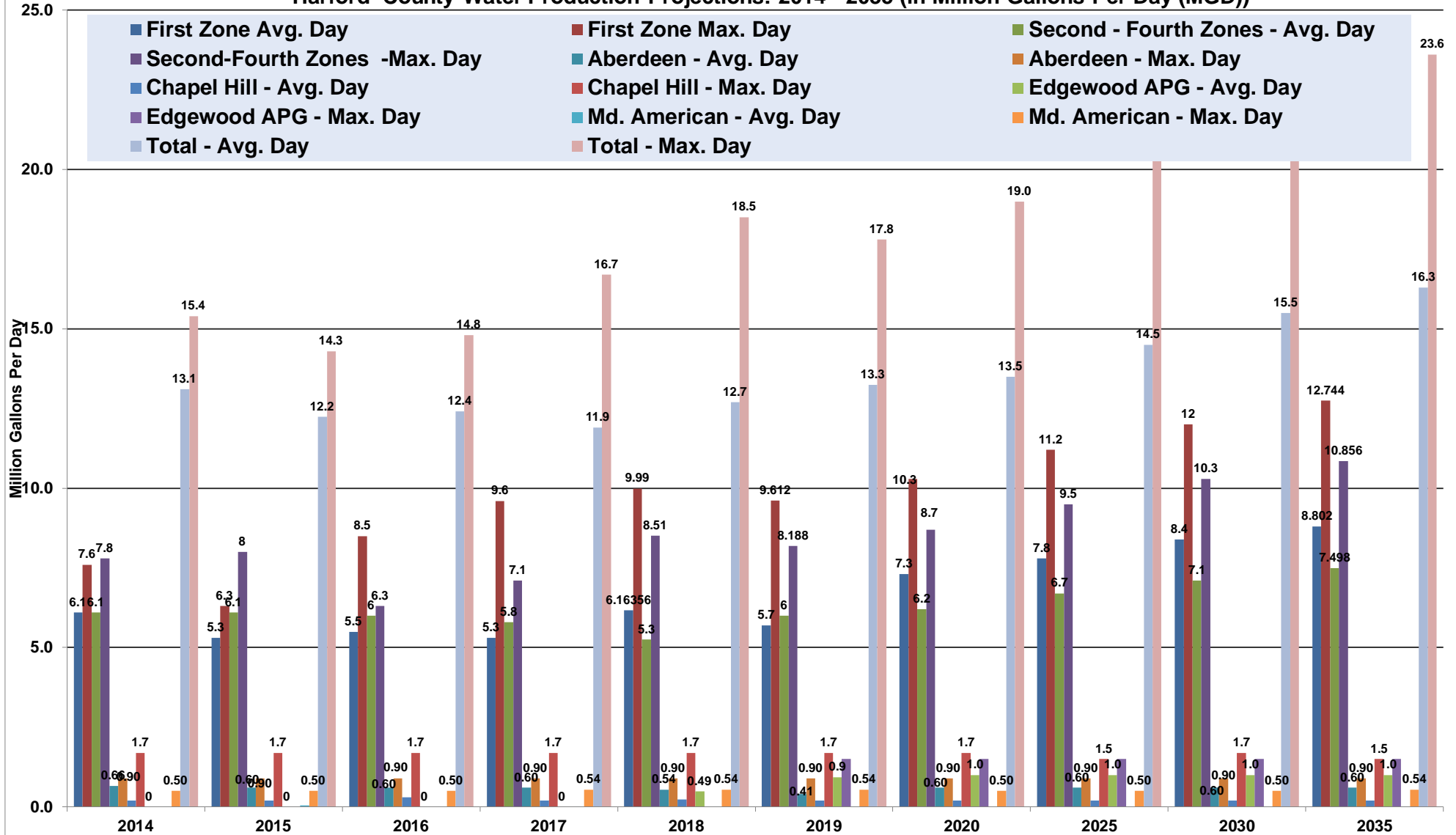
Note: MGD = Million Gallons per Day, GPD = Gallons per Day

Valued Billing Accounts (VBA) - Includes all active valid billing accounts during the selected calendar year.

Valid Consumption Records (VCR) - Includes all valid active billing accounts (VBA) with consumption during the selected calendar year.

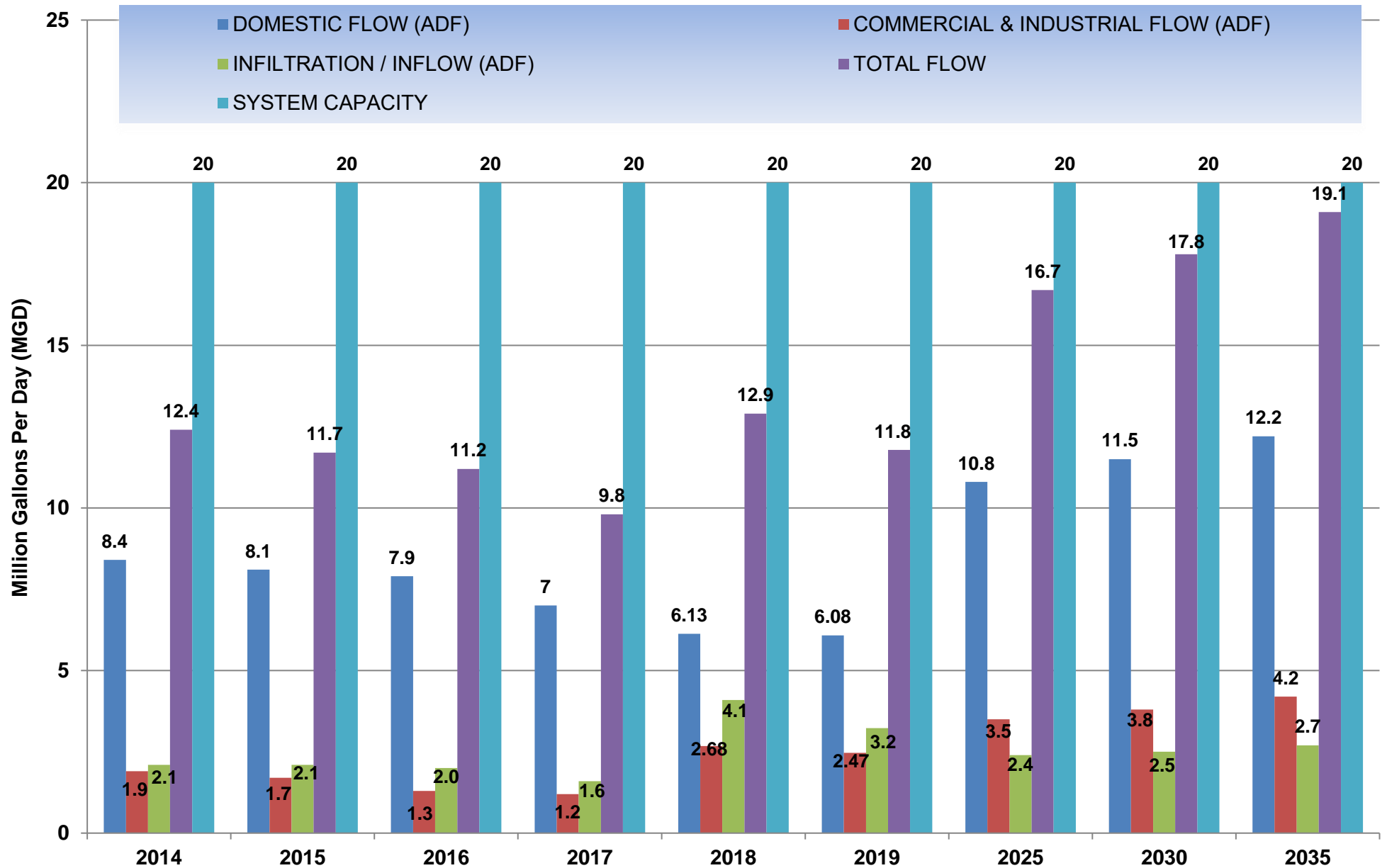
Source: 2019 Adequate Public Facilities Report, Dept. of Public Works, Division of Water and Sewer

Table 19C
Harford County Water Production Projections: 2014 - 2035 (in Million Gallons Per Day (MGD))



Source: 2019 Harford County Adequate Public Facilities Report, Dept. of Public Works, Water and Sewer Division.

Table 20C
Harford County Present and Projected Sewerage Demands and Planned Capacities in
Million Gallons Per Day (MGD): 2014 - 2035



Source: 2019 Harford County Adequate Public Facilities Report, Dept. of Public Works, Water and Sewer Division.

Table 21C

2019 EXISTING WATER & SEWER CAPITAL PROJECTS

The Capital Improvement Program establishes projects for expanding and improving water and sewer facilities. This list of 2018 Capital Projects includes the project status.

<u>PROJECT NO.</u>	<u>PROJECT NAME</u>	<u>PROJECT STATUS</u>
6018	Water Model Update and System Evaluation	Zone 1 Complete, Scope Development for Other Zones
6152	Water Tank Design and Construction	Future Project
6492	Replacement of Water Booster SCADA	95% Design Complete
6660	Water Zone Improvements	On-going
6687	Abingdon Road Water Main	Design Phase Completed
6703	Bynum Run Parallel Phase 6 & 7	Phase 7 Construction Complete Phase 6 Design is a Future project
6707	Infiltration / Inflow in Bynum Run Drainage Area	Scope Development Phase
6712	Edgewood Interceptor Parallel	Project on Hold, Awaiting Modeling
6714	Infiltration/Inflow	Scope and Contract Development
6021	Fallston Area Sewer System Improvements	Preliminary Design Phase
6057	Brentwood Park P.S. Upgrade	95% Design Phase
6190	Frey's Road Sewer Petition	Preliminary Design Phase
6211	Hickory Area Collector Sewer Improvements	Planning
FY20 New Project	Plumtree Collector Sewer Replacement	Future Project
FY20 New Project	Plumtree P.S. Replacement	Future Project
FY20 New Project	Magnolia Road Sewer Petition	Planning
FY20 New Project	Woodridge Manor Area Sewer Petition	Planning
6730	Bill Bass P.S. Force Main Parallel / Replacement	50% Design Complete
6737	Towne Center Drive Pump Station	100% Design Complete
6709	Magnolia Water Booster Station Improvements - Hydro-Pneumatic Tank Replacement	100% Design Complete

APPENDIX D

Table 22D
Signalized Intersection Capacity Analyses
Level Of Service And Delay In Seconds: 2016 - 2019

Intersection	Peak Hour Level Of Service (LOS) Rating					
	A	B	C	D	E	F
Maryland Route 24 @ I-95 Northbound On/Off Ramp	2016					
	2018					
Maryland Route 24 @ I-95 Southbound Off Ramp	2016					
	2018					
Maryland Route 7 and U.S. Route 40*	2016					
	2018					
Maryland Route 924 and Moores Mill Road	2016					
	2018					
Maryland Route 24 and Trimble Road	2016					
	2018					
Maryland Route 152 and U.S. Route 1	2016					
	2018					
Maryland Route 24 and U.S. Route 1	2016					
	2018					
Maryland Route 152 and Trimble Road	2016					
	2018					
Maryland Route 24 and Jarrettsville Road	2016					
	2018					
Maryland Route 152 and Hanson Road	2016					
	2018					
Maryland Route 152 and Singer Road	2016					
	2018					
Maryland 22 and Thomas Run Road/Schucks Road	2016					
	2018					
Maryland 715 and Old Philadelphia Road	2016					
	2018					
Maryland Route 22 and Brier Hill Road	2017					
	2019					
Maryland Route 22 and Maryland Route 136	2017					
	2019					
Maryland Route 24 and Bel Air South Parkway	2017					
	2019					
Maryland Route 24 and Forest Valley Drive	2017					
	2019					
Maryland Route 24 and Plumtree Road	2015					
	2019					
Maryland Route 24 and Ring Factory Road	2017					
	2019					
MD 924 @ MD 24 North Bound Ramp	2017					
	2019					
Tollgate Rd @ MD 24 Southbound Ramp	2017					
	2019					
Maryland Route 543 and U.S. Route 1	2017					
	2019					
Maryland Route 543 and Maryland Route 22	2017					
	2019					
Maryland Route 924 and Abingdon Road **	2017					
	2019					

General Definition of Level Of Service Ratings

LOS A – free flow of traffic with no restriction of significant delay (<= 10 seconds).
LOS B – stable flow of traffic with very little restriction or delay (> 10 & <= 20 seconds).
LOS C – stable flow of traffic with low to moderate restriction or delay (>=20 & <= 35 seconds).
LOS D – approaching unstable flow of traffic with moderate to heavy restriction and delay (> 35 & <= 55 seconds).
LOS E – unstable flow of traffic with significant restriction and delay (>55 & <= 80 seconds).
LOS F – forced flow or cases of “grid lock”. The flow rate drops significantly (> 80 seconds).

* SHA improvement at this intersection

** Improvement funded by developer at this intersection

Source: Harford CountyCo. Dept. of Planning and Zoning, May 2020.

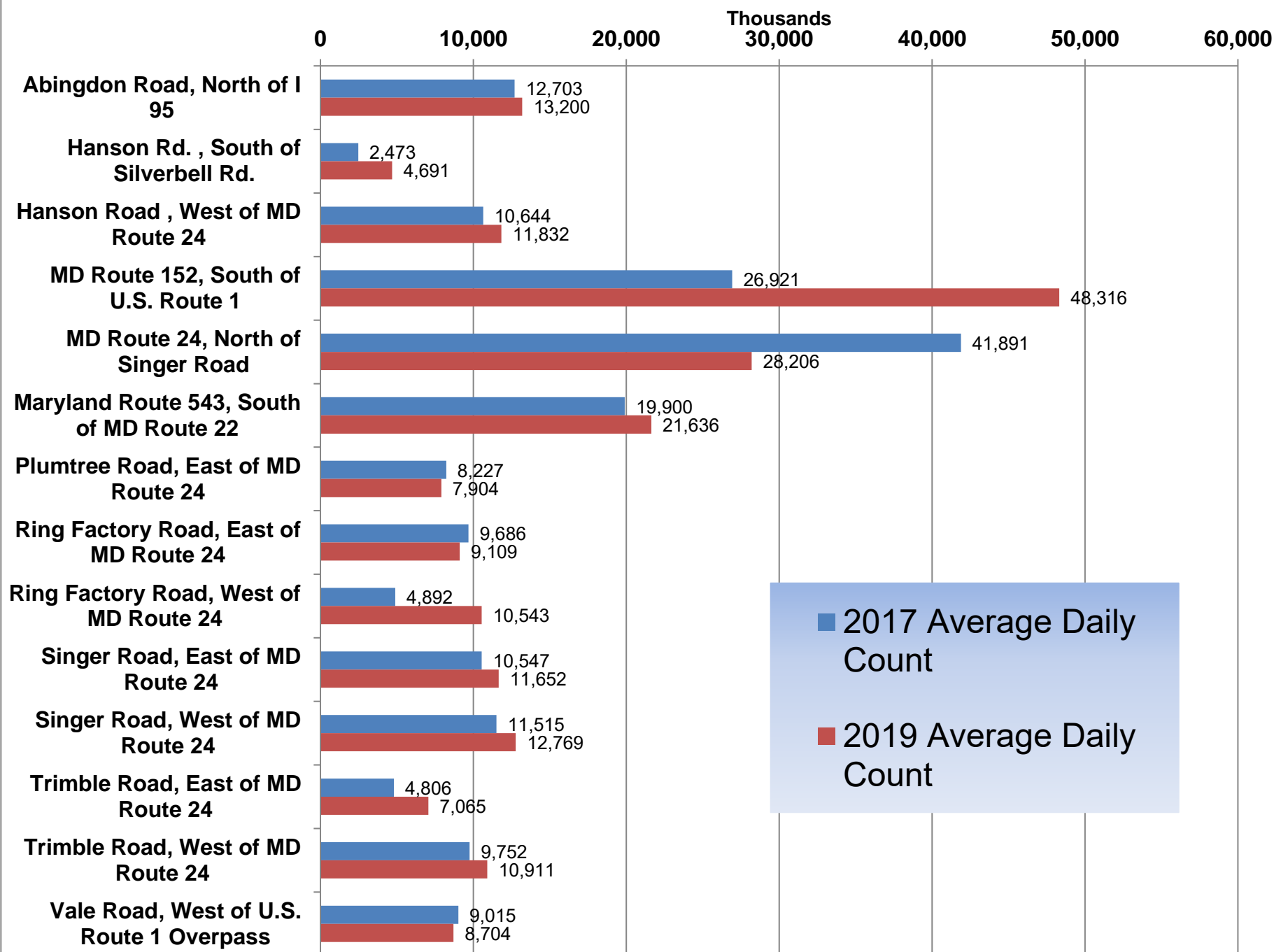
Table 23D
Unsignalized Intersection Capacity Analyses
Level Of Service And Delay In Seconds: 2015 - 2018

Intersection	Peak Hour Level Of Service (LOS) Rating					
	A	B	C	D	E	F
Business US 1 and Henderson Road	2016					
	2018					
Maryland 23 and Grafton Shop Road	2016					
	2018					
Tollgate Road and MacPhail Road	2016					
	2018					
US 1 and Reckord Road	2016					
	2018					
Maryland 7 and Brass Mill Road ***	2016					
	2018					
Woodsdale Road and Box Hill Corporate Center Drive	2016					
	2018					
Maryland Route 7 and Maryland Route 159	2017					
	2018					
Maryland Route 7 and Joppa Farm Road	2018					
	2019					
Maryland Route 159 and Spesutia Road	2017					
	2019					
Maryland 155 and Earlton Road	2017					
	2019					
Maryland 543 and Henderson Road	2017					
	2019					
Tollgate Road and Ring Factory Road	2017					
	2019					
Maryland 22 and Aldino-Stepney Road	2017					
	2019					
Macphail and Ring Factory Road	2017					
	2019					
General Definition of Level Of Service Ratings						
LOS A – free flow of traffic with no restriction of significant delay (<= 10 seconds).						
LOS B – stable flow of traffic with very little restriction or delay (> 10 & <= 20 seconds).						
LOS C – stable flow of traffic with low to moderate restriction or delay (>=20 & <= 35 seconds).						
LOS D – approaching unstable flow of traffic with moderate to heavy restriction and delay (> 35 & <= 55 seconds).						
LOS E – unstable flow of traffic with significant restriction and delay (>55 & <= 80 seconds).						
LOS F – forced flow or cases of “grid lock”. The flow rate drops significantly (> 80 seconds).						

*** Improvement funded by developer

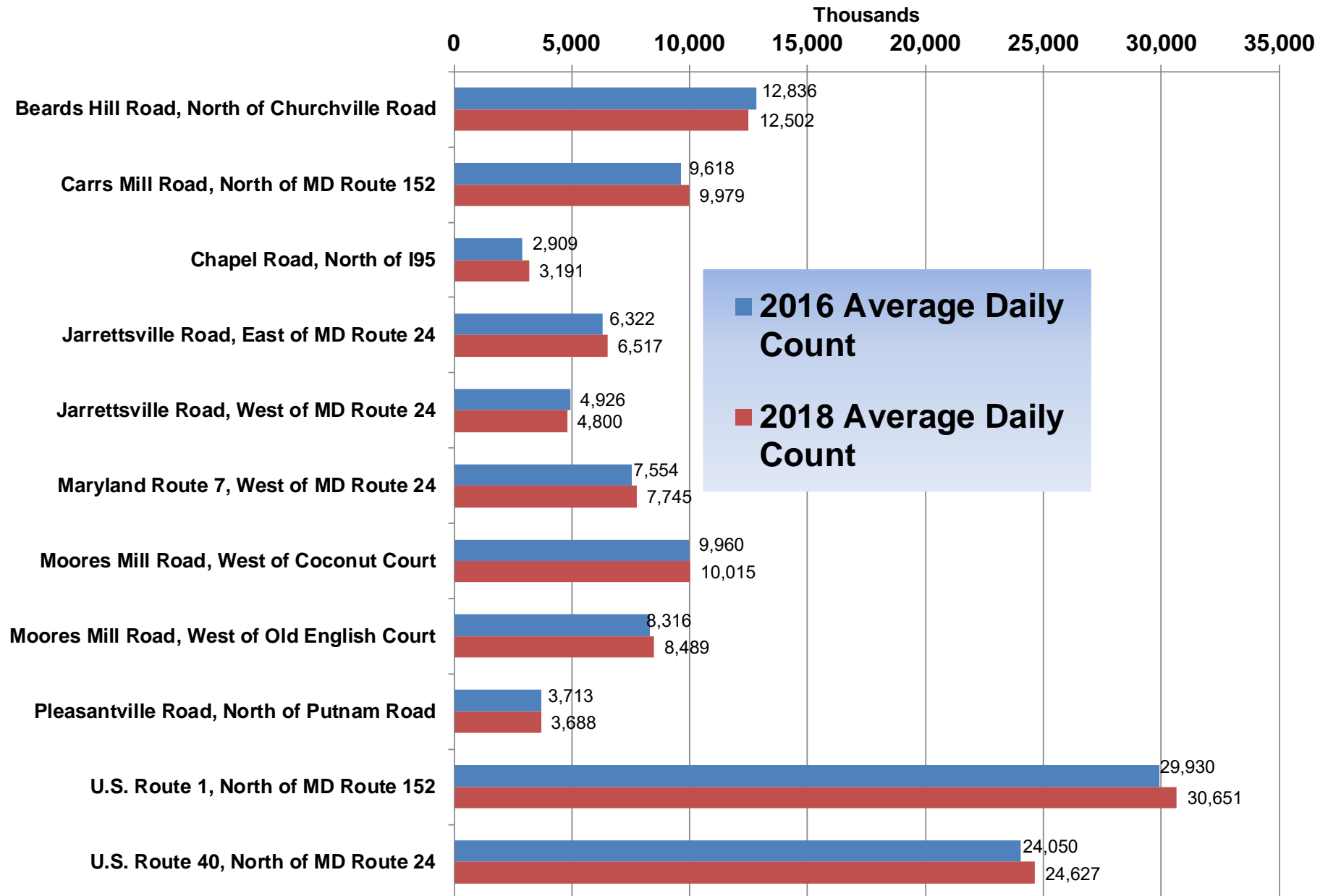
Source: Harford County Dept. of Planning and Zoning, May 2020

Table 24D.1
48 Hour Average Weekday Daily Traffic Volume: 2017 and 2019



Source: Harford County Dept. of Planning and Zoning, May, 2019.

Table 24D.2
48 Hour Average Weekday Daily Traffic Volume: 2016 and 2018



Source: Harford County Dept. of Planning and Zoning, May, 2019.

Table 25D
List of Approved County Capital Projects Funded for Construction in
Fiscal Year 2020

Project Name	Project Type
Schucks Road Road Improvements	Upgrade stormwater
Spesutia Road Improvements	Upgrade capacity
Trimble Road (Joppa Road to Garnet Road)	Safety/Capacity Improvements
Woodley Road Extensiton to MD 715	Construction
Water Tower Way and Granary Road	Intersection Improvement Completed
Road Reconstruction and Rehabilitation*	Reconstruct and rehabilitate
Bridge Rehabilitation	Repairs
Bridge and Road Scours	Repairs
Abingdon Road Bridge #169 over CSX	Replacement
Chestnut Hill Bridge #40	Replacement
Grier Nursery Road Bridge #143	Replacement
Phillips Mill Road Bridge #70	Replacement
Hookers Mill Road Bridge	Replacement
Johnson Mill Road Bridge #45	Replacement
Stafford Road Bridge #24	Repairs
Roadways Resurfacing*	Resurfacing
Intersection Improvements*	Safety/Capacity Improvements
Moore's Mill Road – US 1 Business to MD 924 (Phase 3)	Upgrade
Tollgate Road West Ring Factory Road to Plumtree Road	Upgrade

*Note: These are ongoing county-wide project activities that include repairs, upgrades, and resurfacing of roads and bridges selected each spring dependent upon severity of roadway problems and cost for repairs.

Table 26D
List of State Consolidated Transportation Program
Funded for Construction in Fiscal Year 2020

Project Name	Project Type
US 1 Business Main Street to Hickory Ave.	Resurface/Rehabilitate
MD 924 Plumtree to Ring Factory	Resurface/Rehabilitate
US 40 at MD 7 / MD 159 in Aberdeen (Phase2)	Construction Underway
MD 32 from MD 462 to US 40	Resurface/Rehabilitate
MD 7; MD 24 to Abingdon Road	Safety/Resurfacing Completed
MD 24, Rocks Road	Safety/Resurfacing
MD 23; At Grafton Shop Road Intersection	Safety Improvement Completed
MD 147: At Connolly Road	Widening / Resurfacing Completed

APPENDIX E

Table 27E

HARFORD COUNTY APPROVED SUBDIVISION PLANS: 2019											
MAP #	PLAN NAME	ACREAGE	LOT ACREAGE	TOTAL UNITS	SF UNITS	TH UNITS	APT UNITS	CONDO UNITS	TYPE OF USE	PFA	ZONING
1	1601 BELAIR ROAD	2.2	1.2	0	0	0	0	0	NON RESIDENTIAL	YES	B3
2	TOWER LOGISTICS CENTER	100.746	100.746	0	0	0	0	0	NONRESIDENTIAL	YES	CI
3	3010 RECKORD ROAD	24.67	2.3	0	0	0	0	0	NONRESIDENTIAL	NO	AG
4	WAWA-EDGEWOOD	2.15	2.15	0	0	0	0	0	NONRESIDENTIAL	YES	CI
5	ANDERSON PROPERTY	1.14	1.14	0	0	0	0	0	NONRESIDENTIAL	YES	CI
6	FASHION COURT - LOTS 2A & 2B	15.907	15.907	0	0	0	0	0	NONRESIDENTIAL	YES	GI
7	BYNUM RUN, THE SHOPS AT	8.2266	8.2266	0	0	0	0	0	NONRESIDENTIAL	YES	B3
8	ANDY'S MEADOW - LOT 9	50.417	2.22	1	1	0	0	0	RESIDENTIAL	NO	AG
9	CARDINAL'S CHOICE - LOTS 5-8	4.076	4.076	4	4	0	0	0	RESIDENTIAL	NO	VR
10	CONNOLLY FARMS - LOTS 5-11	46.406	46.406	7	7	0	0	0	RESIDENTIAL	NO	AG
11	DELP, CLARENCE W.	7.52	5.48	1	1	0	0	0	RESIDENTIAL	NO	AG
12	FRITZ STEVEN, ET UX - LOTS 1 & 2	11.702	11.702	2	2	0	0	0	RESIDENTIAL	NO	AG
13	HARLAN'S GLANCE - LOT 12	48.6905	2.068	1	1	0	0	0	RESIDENTIAL	NO	AG
14	HOPKINS FARM - LOTS 1-5	10	10	5	5	0	0	0	RESIDENTIAL	NO	AG
15	KELLY, LANDS OF	13.076	13.076	1	1	0	0	0	RESIDENTIAL	NO	AG
16	KINARD, LDS OF RICHARD E & WIFE - PARCEL 5	12.985	12.985	2	2	0	0	0	RESIDENTIAL	NO	AG
17	SLADE FARM - LOT 1	2	2	1	1	0	0	0	RESIDENTIAL	NO	AG
18	STARR'S ADDITION TO FALLSTON GLEN - LOTS 2 & 3	19.01	19.01	2	2	0	0	0	RESIDENTIAL	NO	AG
19	TWIN STREAM ESTATES	75.998	75.998	2	2	0	0	0	RESIDENTIAL	NO	AG
20	WILMOTH, LDS OF - LOT 2	16.739	3.046	1	1	0	0	0	RESIDENTIAL	NO	AG
21	AUMAR VILLAGE RESIDENTIAL	35.22	35.22	86	86	0	0	0	RESIDENTIAL	YES	B3
22	BEL AIR HEIGHTS	2.57	2.57	2	2	0	0	0	RESIDENTIAL	YES	R2
23	BENSONS CORNER	11.38	11.38	56	0	0	56	0	RESIDENTIAL	YES	B3
24	CROSSROADS AT HICKORY APARTMENTS	9.81	9.81	184	0	0	184	0	RESIDENTIAL	YES	B3
25	GARDEN GLEN	6.795	6.795	30	0	30	0	0	RESIDENTIAL	YES	R2
26	HOMES AT FOUNTAIN GREEN	10.28	0	72	0	0	72	0	RESIDENTIAL	YES	B3
TOTAL		550	406	460	118	30	312	0			

KEY:	1 -5 Units	7-10 Units	11+ Units	Nonresidential
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Approved Subdivision Plans

RESIDENTIAL UNITS

- 1 - 5
- 6 - 10
- 11 +

NONRESIDENTIAL

Development Envelope

***NUMBER INSIDE BUILDINGS IS MAP NUMBER IN TABLE ON NEXT PAGE**

Approved Subdivision Plans

